



Blank Page

Don't Forget To Delete Me!

PK #57

6.9

WJ SPURIOUS
REF 30.0 dBm
MKR 1.870 GHz
26.00 dBm

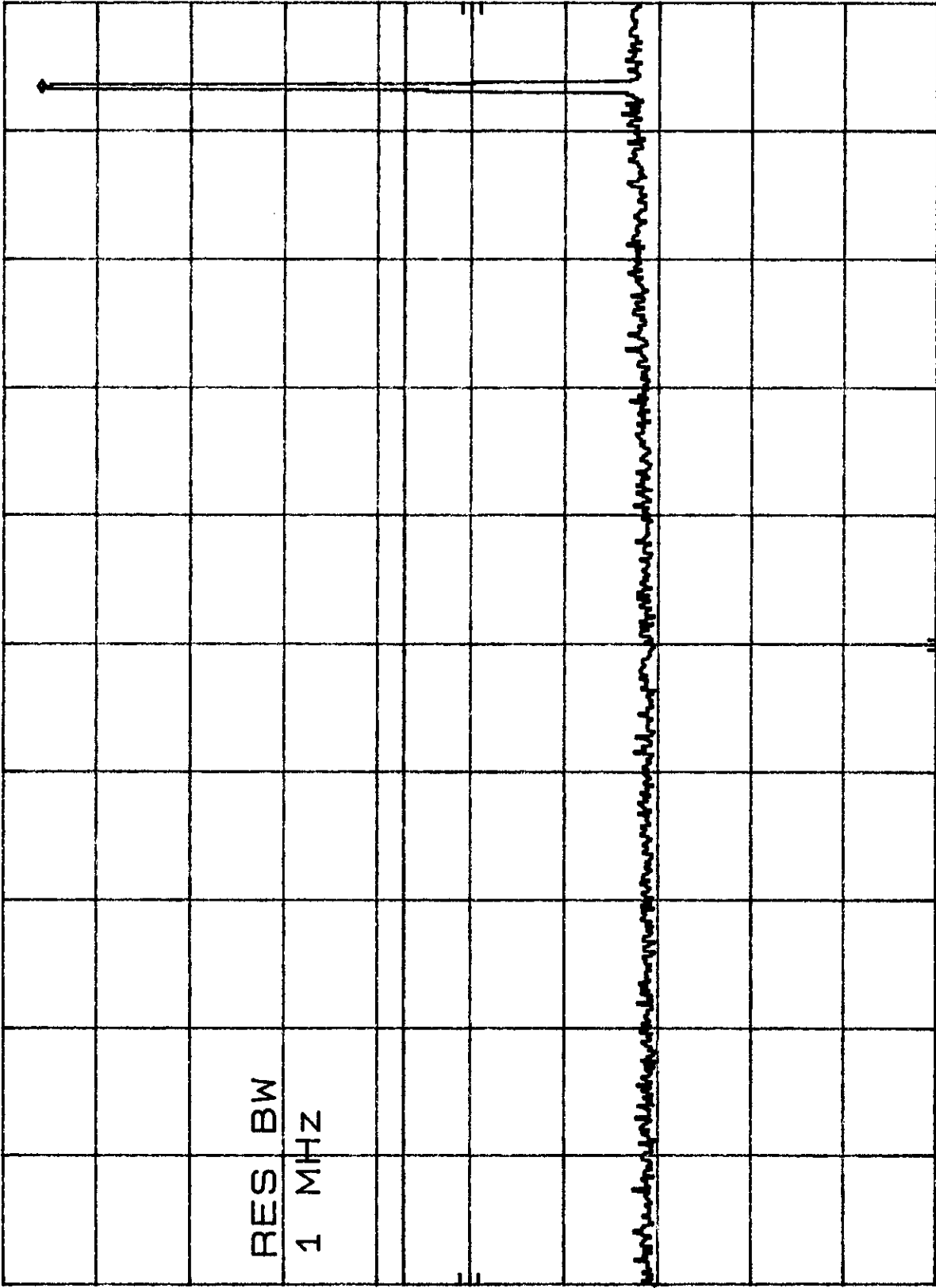
ATTEN 40 dB

RES BW
1 MHz

hp

10 dB/

DL
-13.0
dBm



START 30 MHz
RES BW 1 MHz
STOP 2.00 GHz
SWP 49.3 msec

VBW 1 MHz

#57

OK #57

57

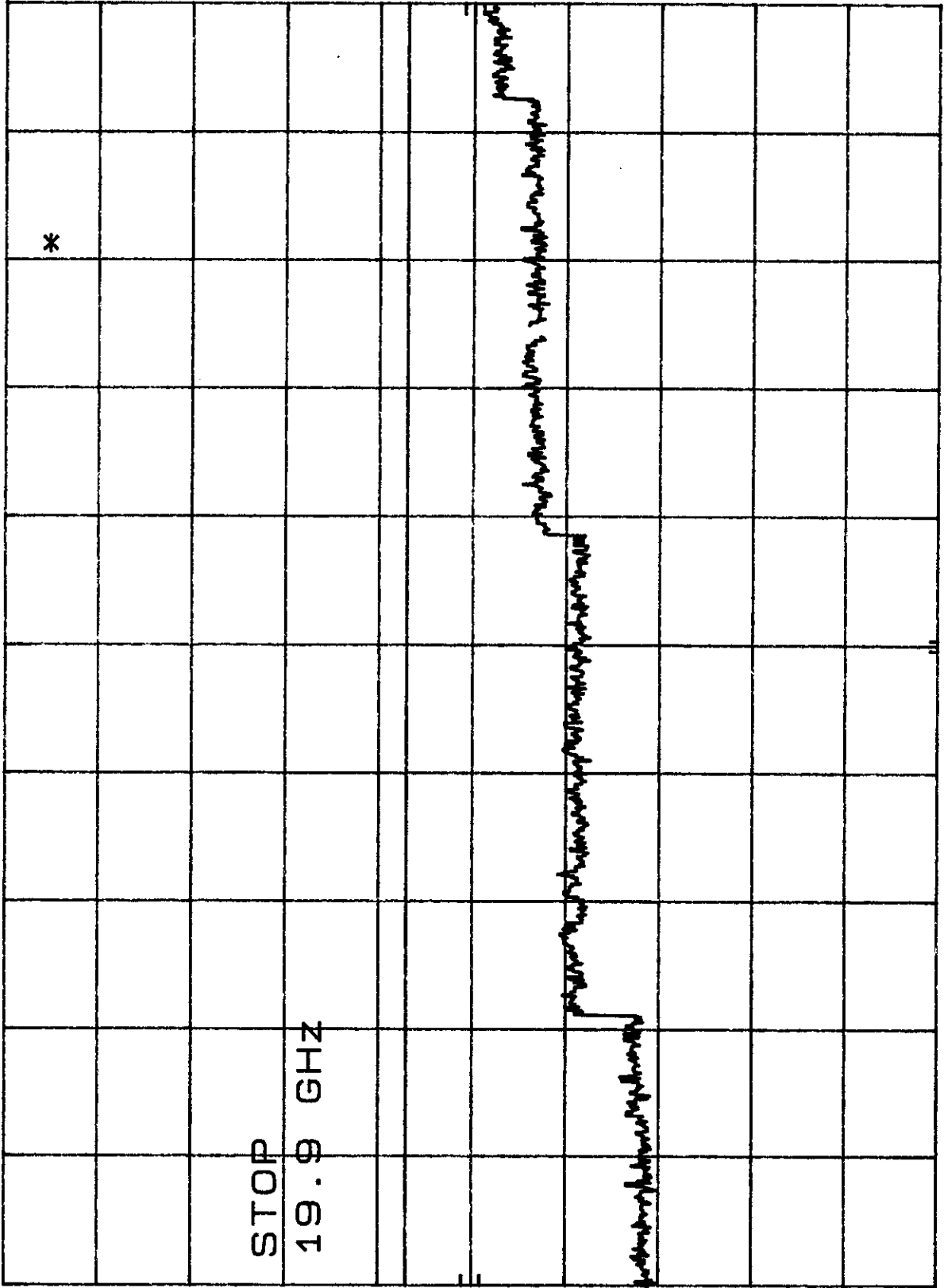
WJ SPURIOUS
REF 30.0 dBm
ATTEN 40 dB
MKR 18.72 GHz
-22.80 dBm

hp

10 dB/

STOP
19.9 GHz

DL
-13.0
dBm



START 2.0 GHz
RES BW 1 MHz
STOP 19.9 GHz
SWP 448 msec

VBW 1 MHz

#57

#58

58

WJ BANDEDGES
REF 30.0 dBm
MKR 1.850 000 0 GHZ
-46.50 dBm

hp

10 dB/

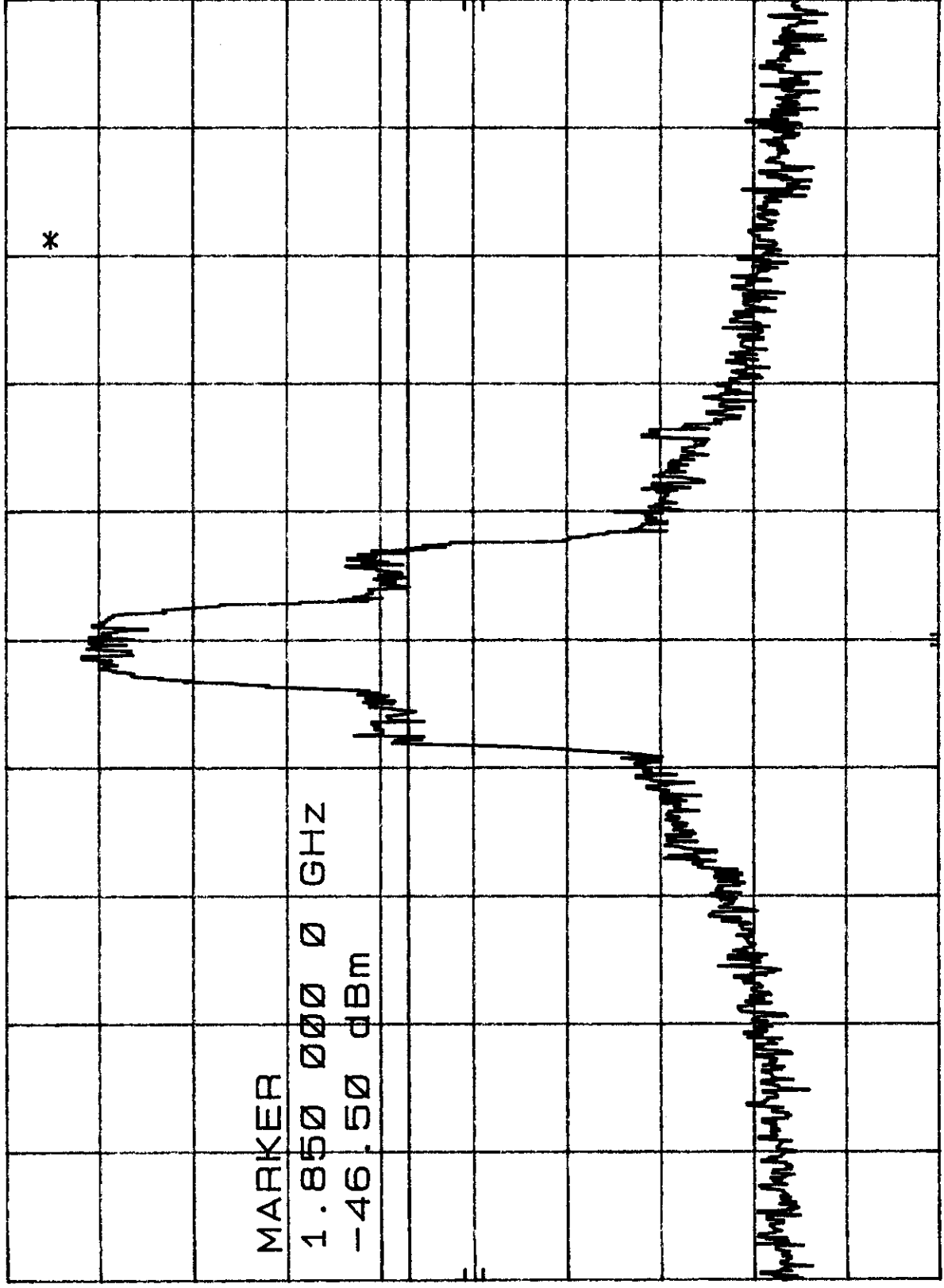
ATTEN 40 dB

MARKER

1.850 000 0 GHZ

-46.50 dBm

DL
-13.0
dBm



CENTER 1.850 100 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#58

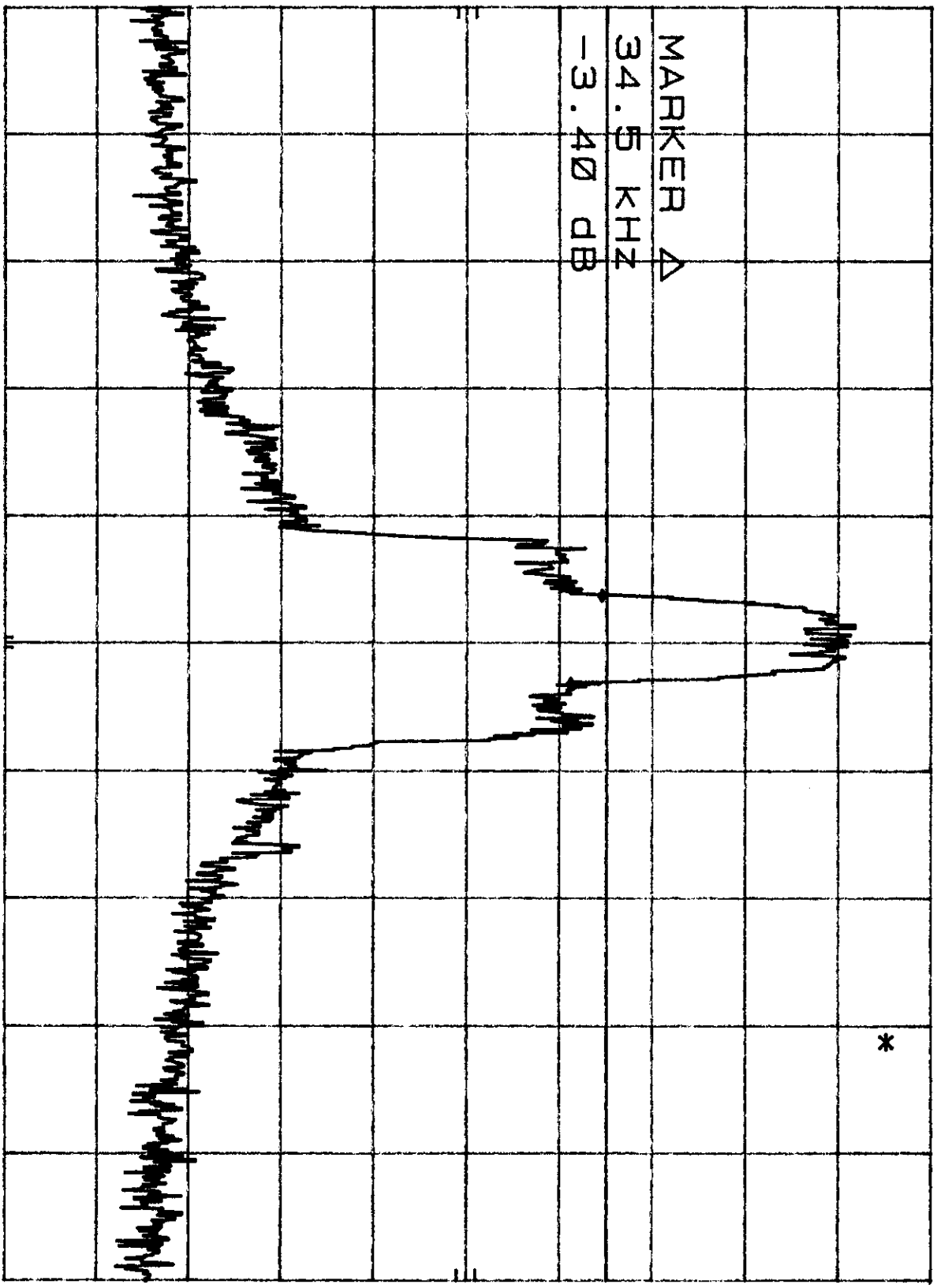
WJ BANDWIDTH
REF 30.0 DBM
10 DB/

ATTEN 40 DB

MKR Δ 34.5 KHZ
-3.40 DB

DL
-4.9
DBM

MARKER Δ
34.5 KHZ
-3.40 DB



CENTER 1.850 100 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#59

59

#59 PK

WJ SPURIOUS
REF 30.0 DBM
ATTEN 40 DB

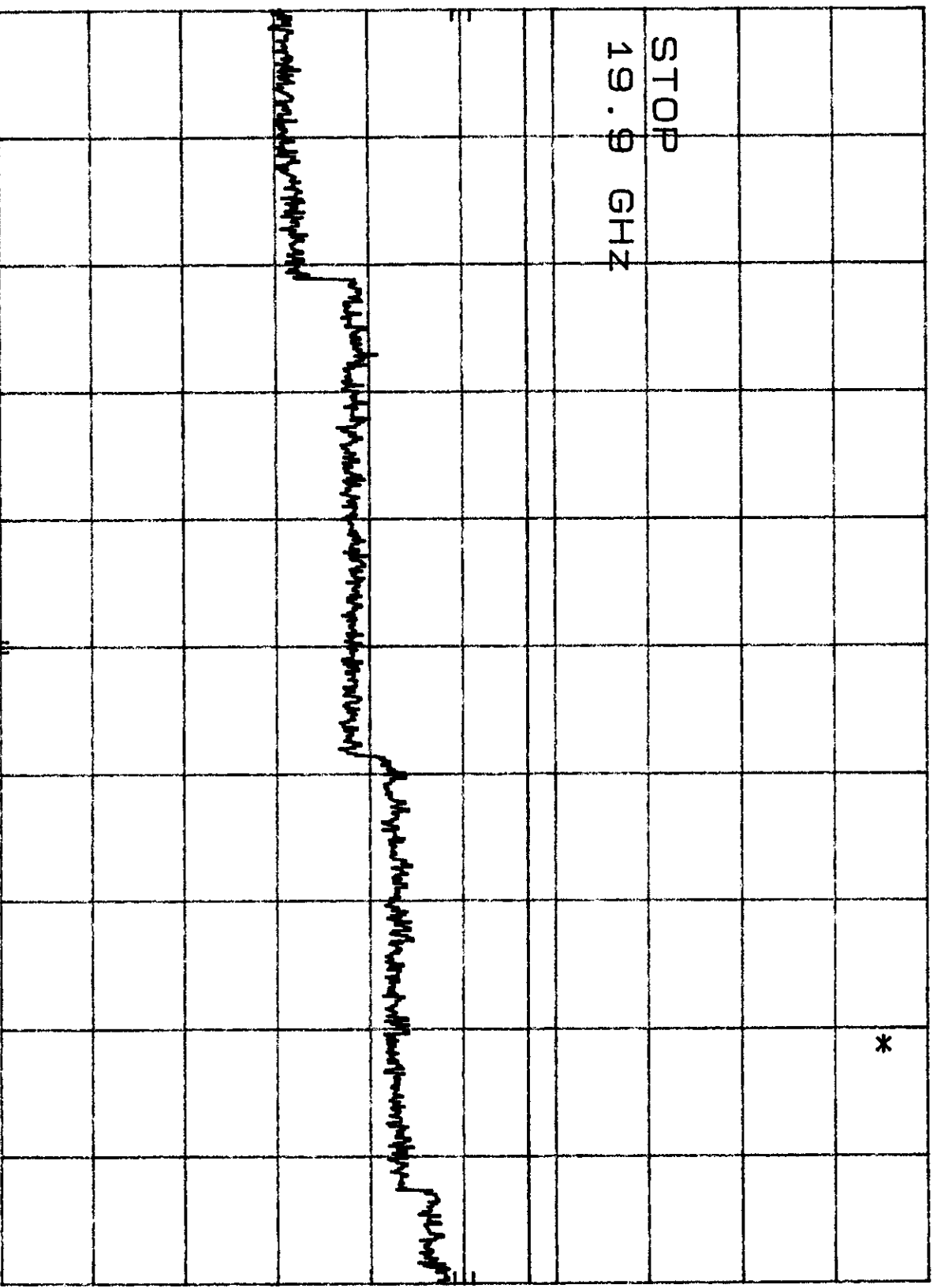
60

#60

PK

HP
10 DB/

DL
-13.0
DBM



START 2.0 GHZ
RES BW 1 MHZ
VBW 1 MHZ
STOP 19.9 GHZ
SMP 448 msec

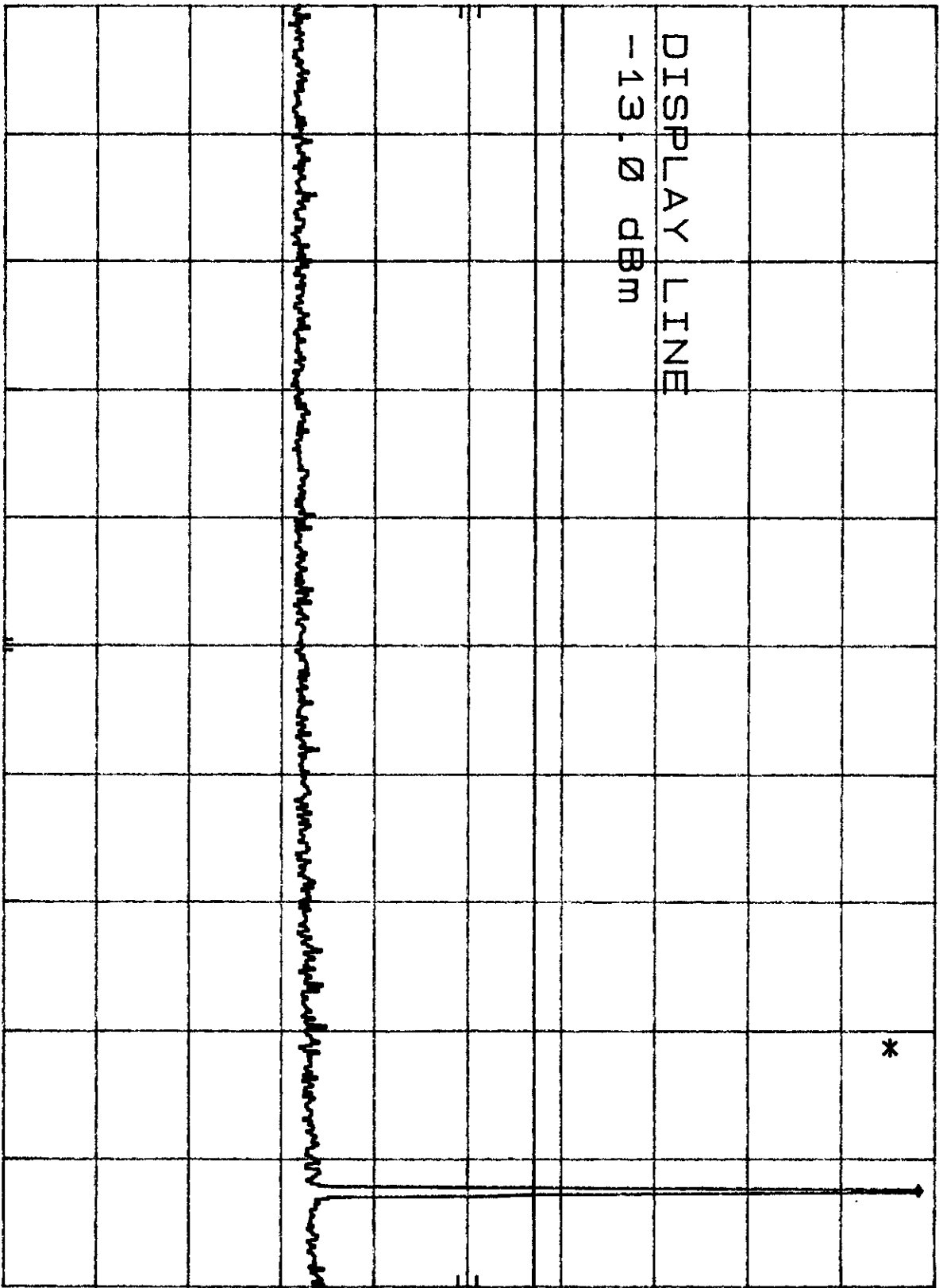
#60

60

#60 PK

WJ SPURIOUS
 REF 30.0 DBM ATTEN 40 DB
 MKR 1.850 GHZ 28.30 DBM
 10 DB/

DL
 -13.0 DBM



START 30 MHz RES BW 1 MHz VBW 1 MHz STOP 2.00 GHz SWP 49.3 msec

#60

61

#61

PK

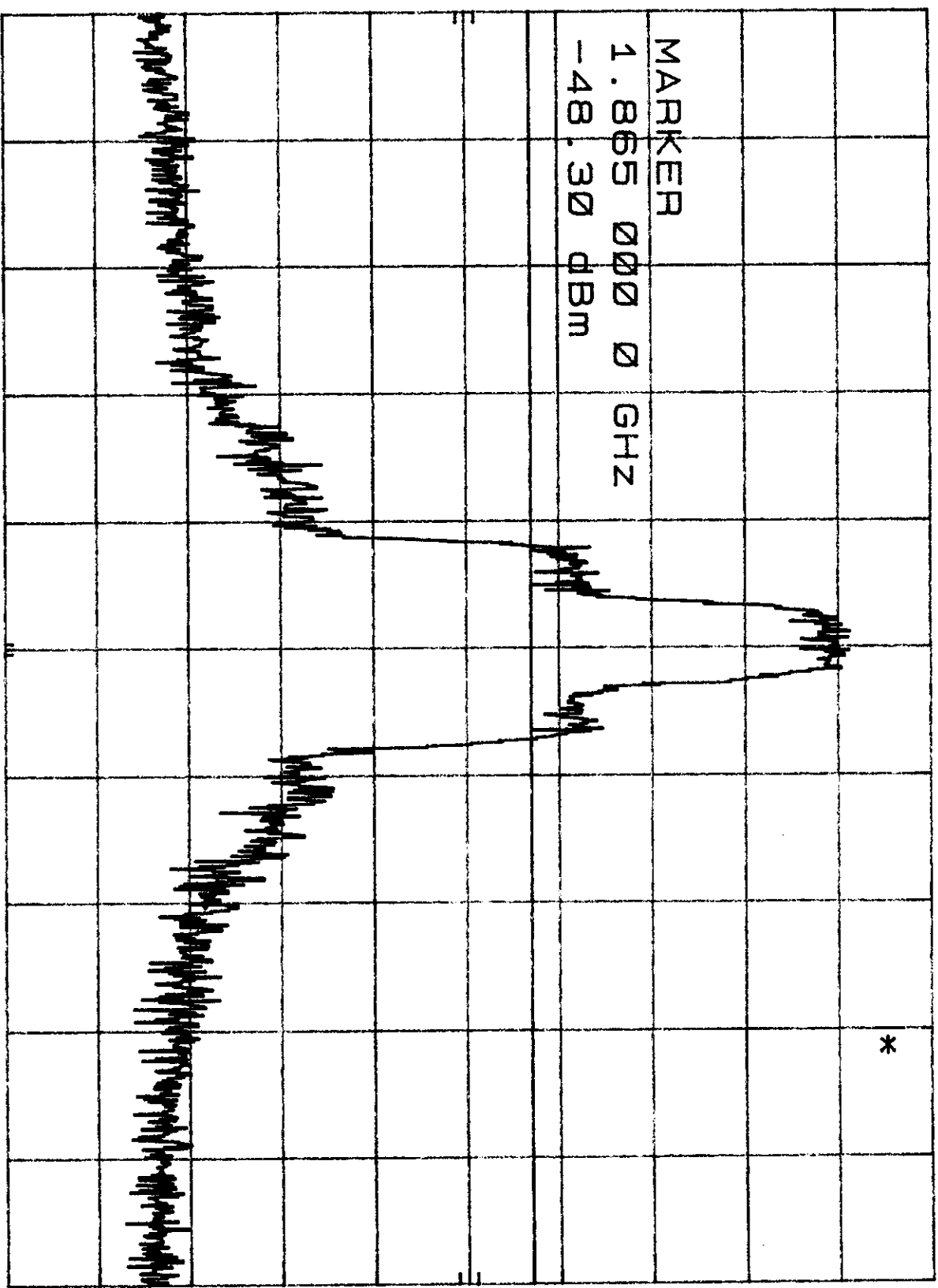
WB BANDEDGES
REF 30.0 DBM

ATTEN 40 DB

MKR 1.865 000 0 GHZ
-48.30 DBM

HP
10 DB/

DL
-13.0
DBM



MARKER

1.865 000 0 GHZ
-48.30 DBM

CENTER 1.864 900 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#61

62

#62 PK

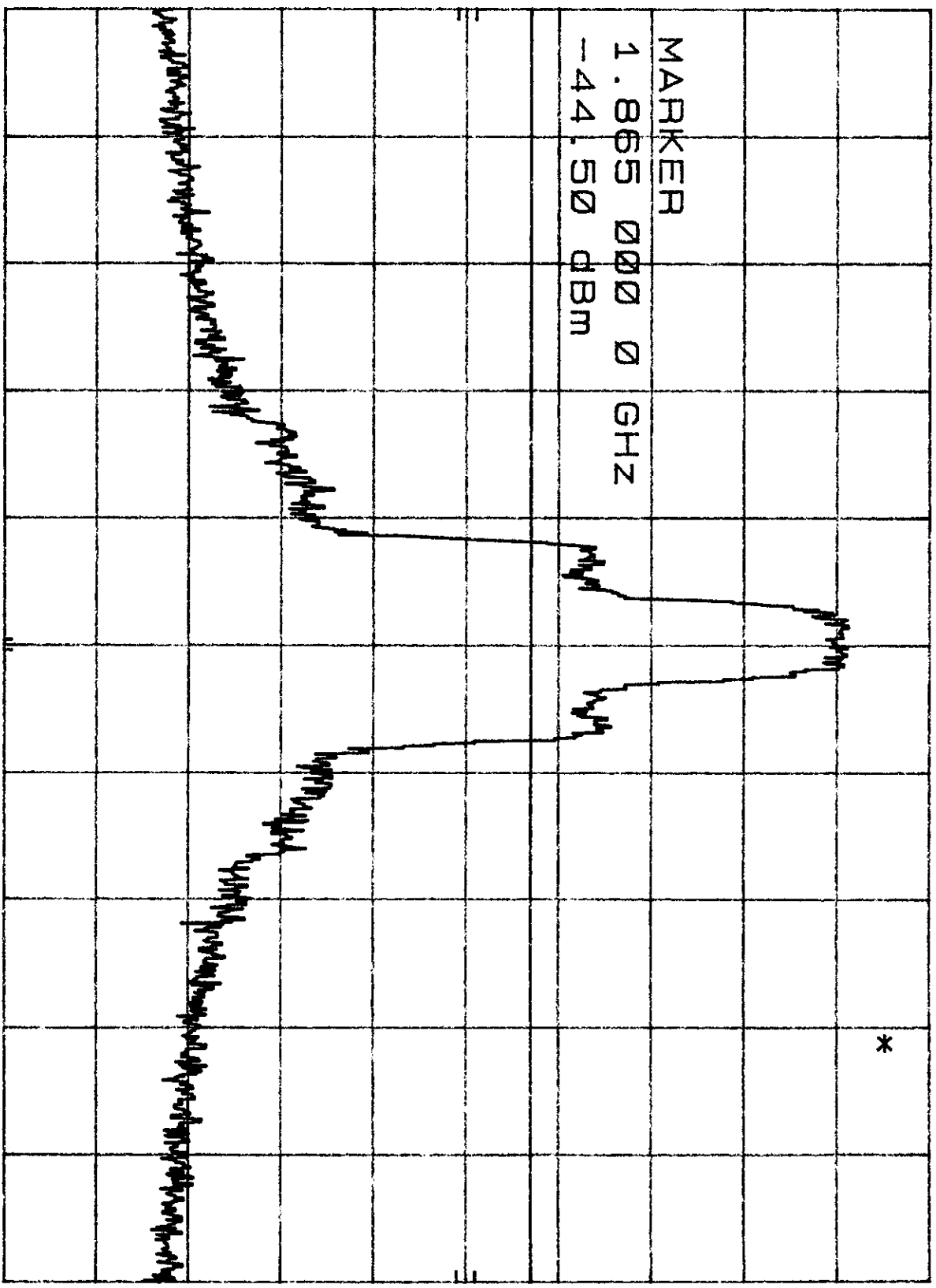
WB BANDEDGES
REF 30.0 DBm
10 DB/

ATTEN 40 DB

MKR 1.865 000 0 GHZ
-44.50 DBm

DL
-13.0
DBm

MARKER
1.865 000 0 GHZ
-44.50 DBm



CENTER 1.865 100 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#62

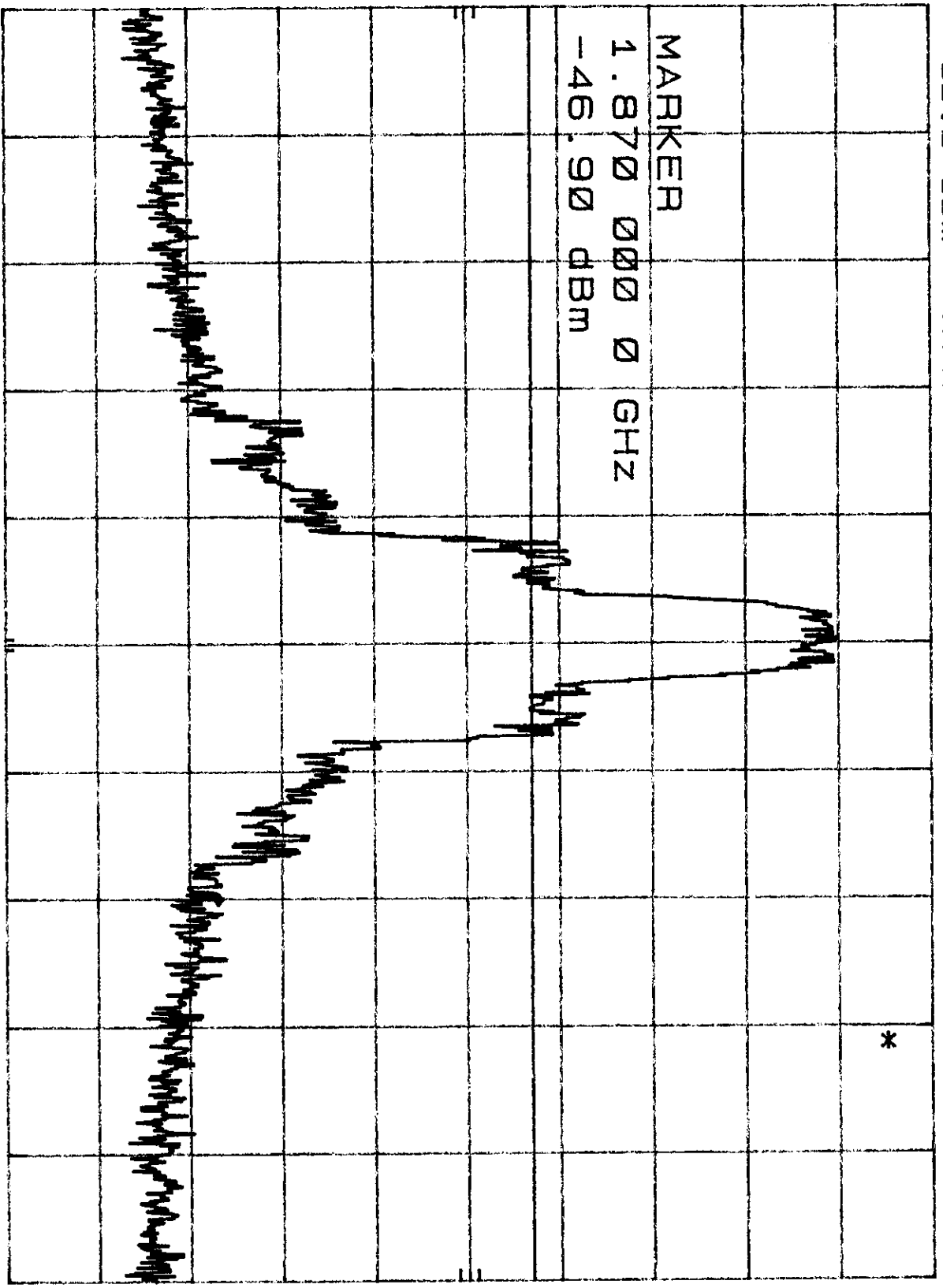
WB BANDEDGES
REF 30.0 DBM

ATTEN 40 DB

MKR 1.870 000 0 GHZ
-46.90 DBM

10 DB/

DL
-13.0
dBm



CENTER 1.869 900 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SMP 1.50 sec

#63

63

#63

PK

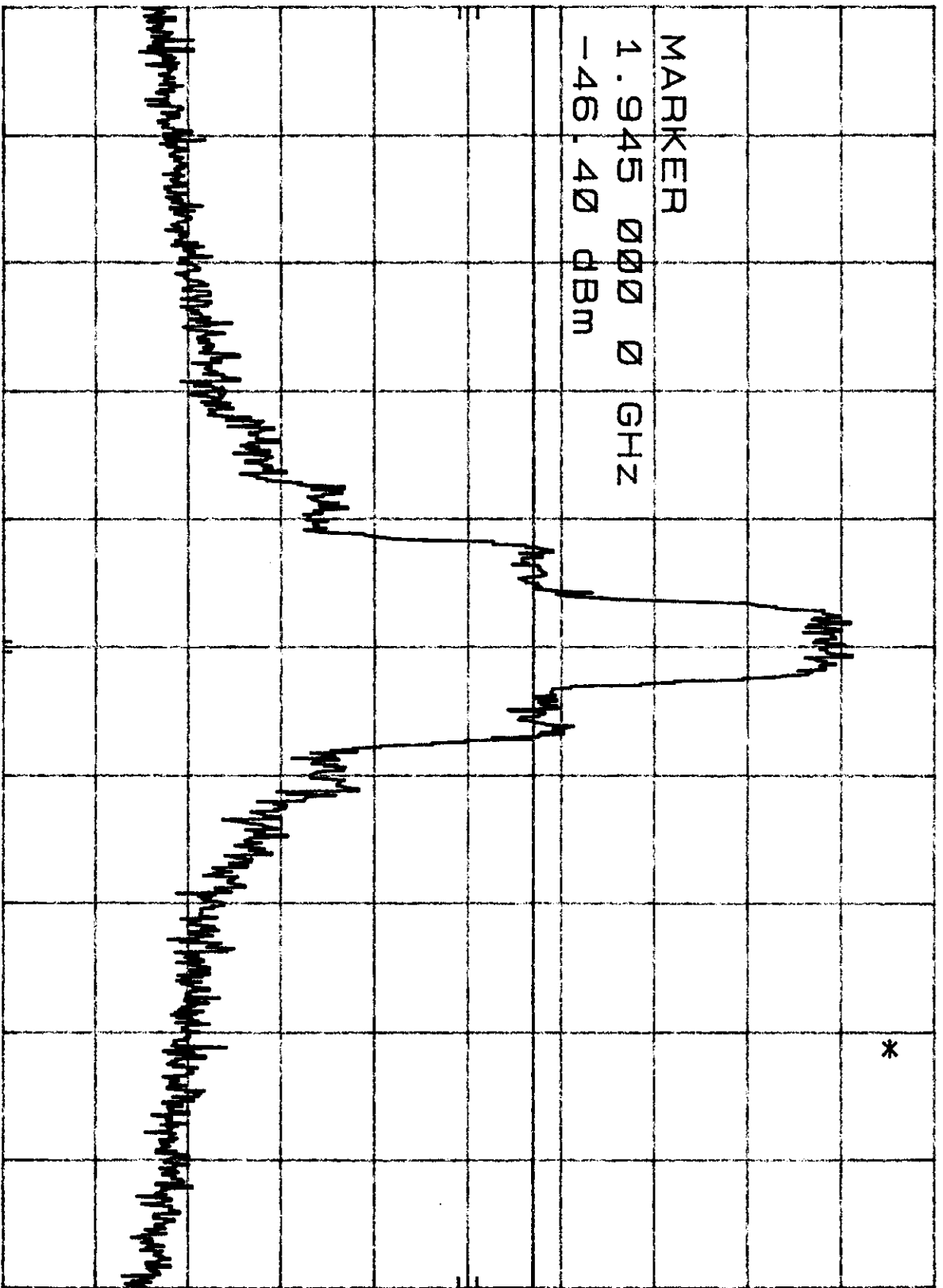
WB BANDEDGES
REF 30.0 DBm
ATTEN 40 DB
10 DB/

65

MKR 1.945 000 0 GHZ
-46.40 DBm

#65 PK

DL
-13.0
dBm



CENTER 1.945 100 GHZ
RES BW 1 KHZ

VBM 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#65

66

#66 PK

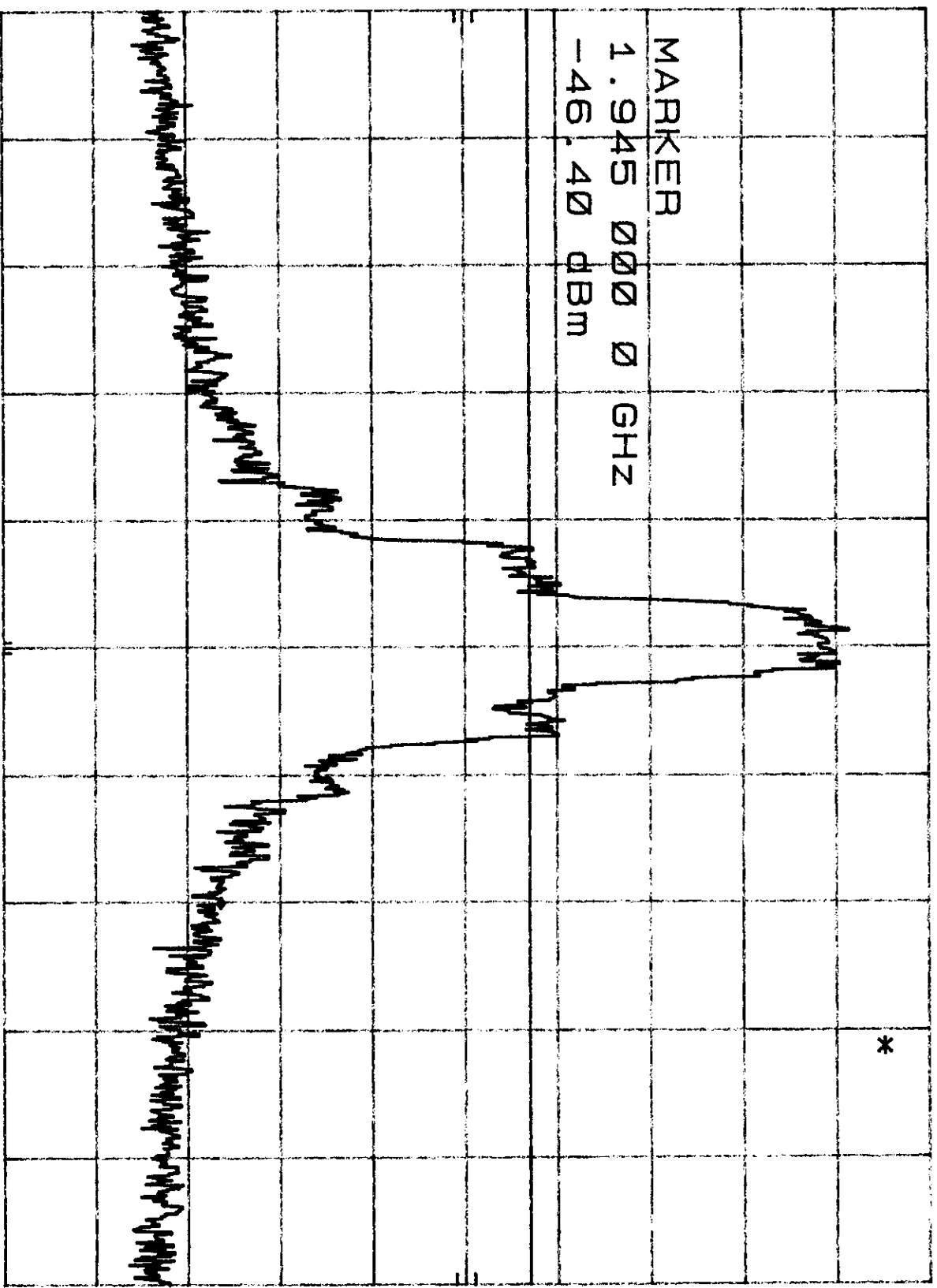
WB BANDEDGES
HP REF 30.0 DBM
10 DB/

ATTEN 40 DB

MKR 1.945 000 0 GHZ
-46.40 DBM

DL
-13.0
DBM

MARKER
1.945 000 0 GHZ
-46.40 DBM



CENTER 1.944 900 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#66

67

#67

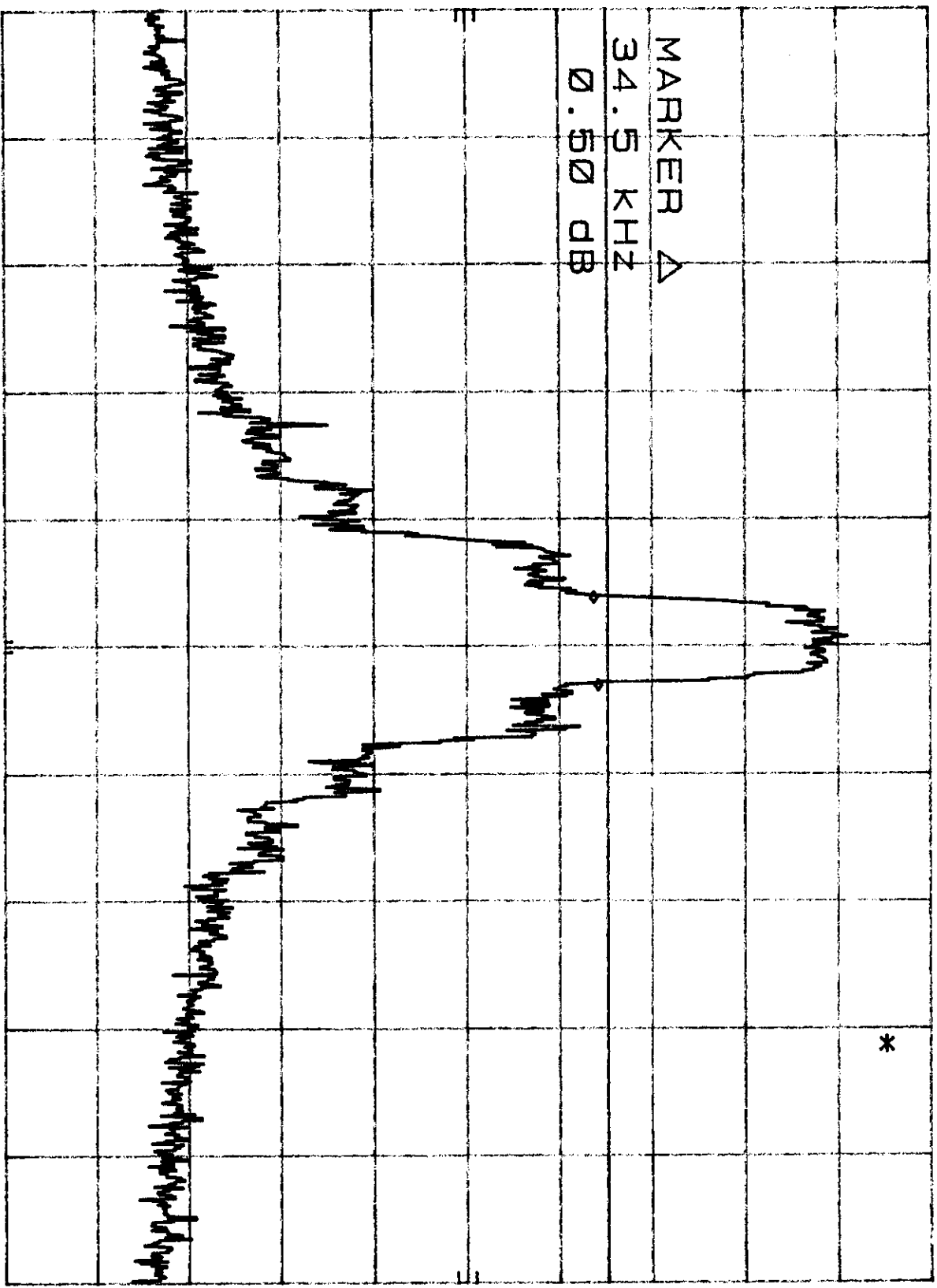
WJ BANDWIDTH
REF 30.0 DBM

ATTEN 40 DB

MKR Δ 34.5 KHZ
0.50 DB

10 DB/

DL
-4.8
dbm



CENTER 1.930 100 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#67

68

#68
PK

WJ SPURIOUS

MKR 1.933 GHz

40

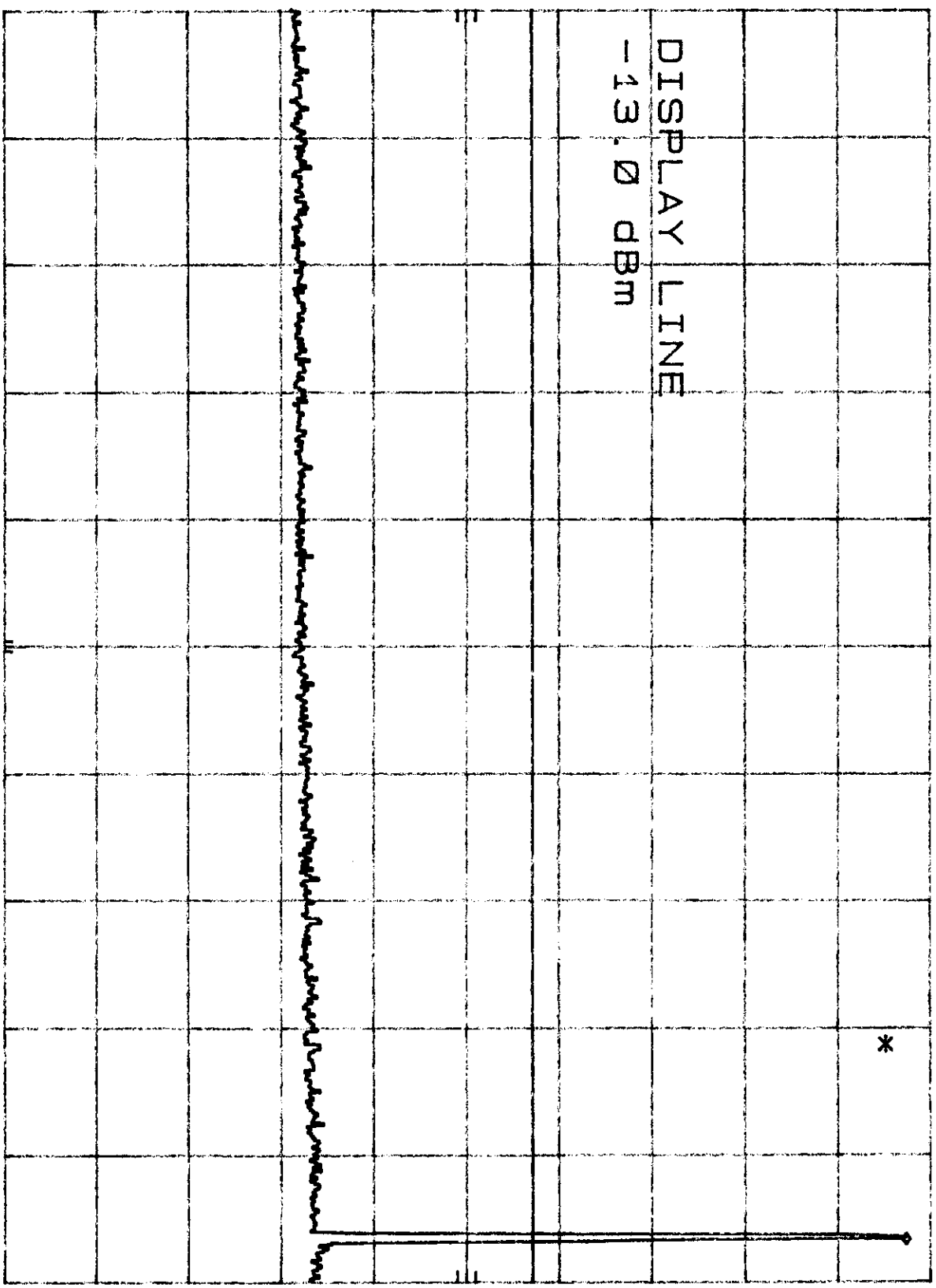
REF 30.0 dBm

ATTEN 40 dB

27.40 dBm

10 dB/

DL
-13.0
dBm



DISPLAY LINE

-13.0 dBm

*

START 30 MHz

RES BW 1 MHz

VBW 1 MHz

SMP 49.3 msec

STOP 2.00 GHz

#68

68

#68

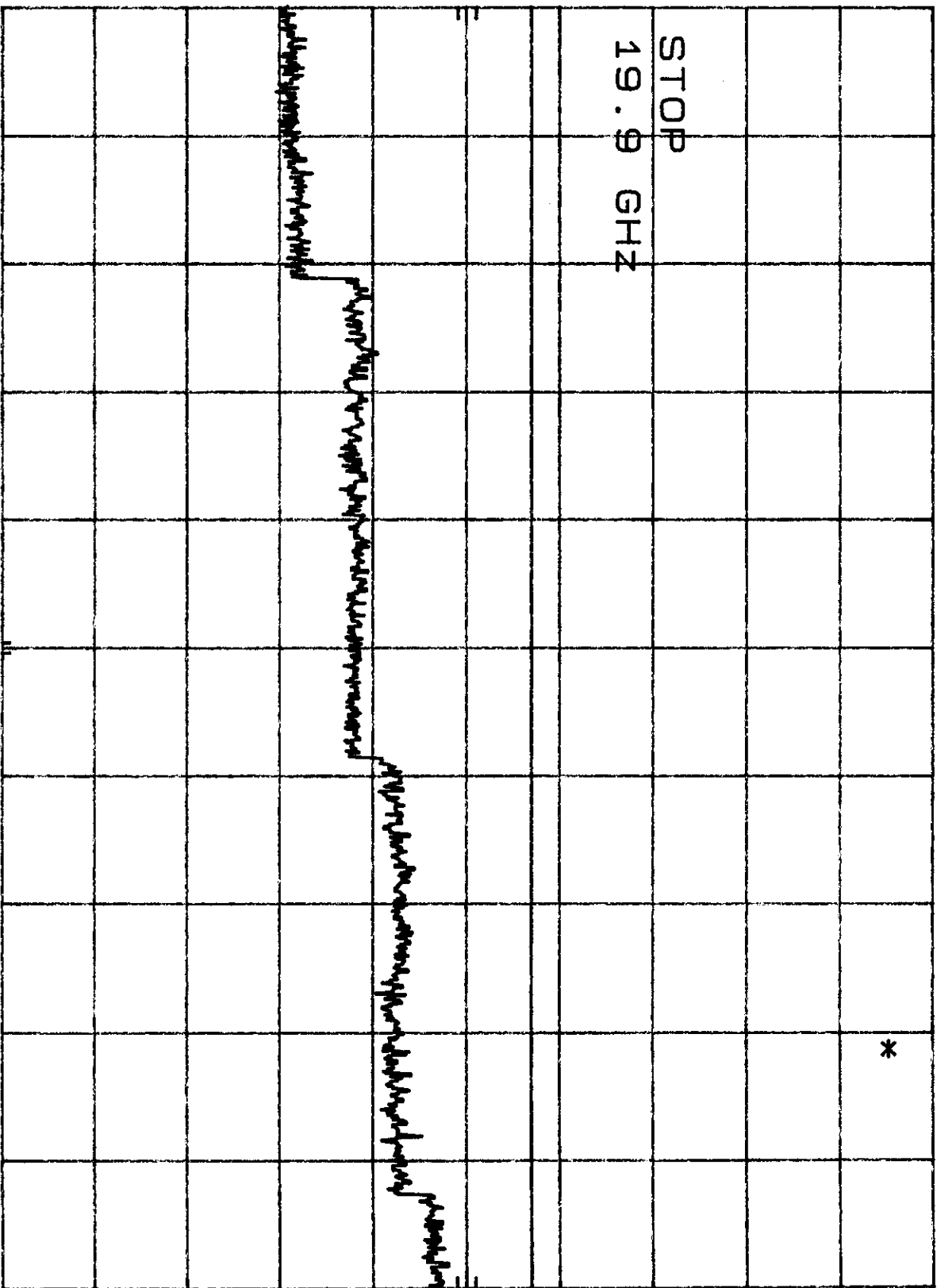
PK

HP

WJ SPURIOUS
REF 30.0 DBM
ATTEN 40 DB

10 DB/

DL
-13.0
dBm



START 2.0 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 19.9 GHz
SWP 448 msec

#68

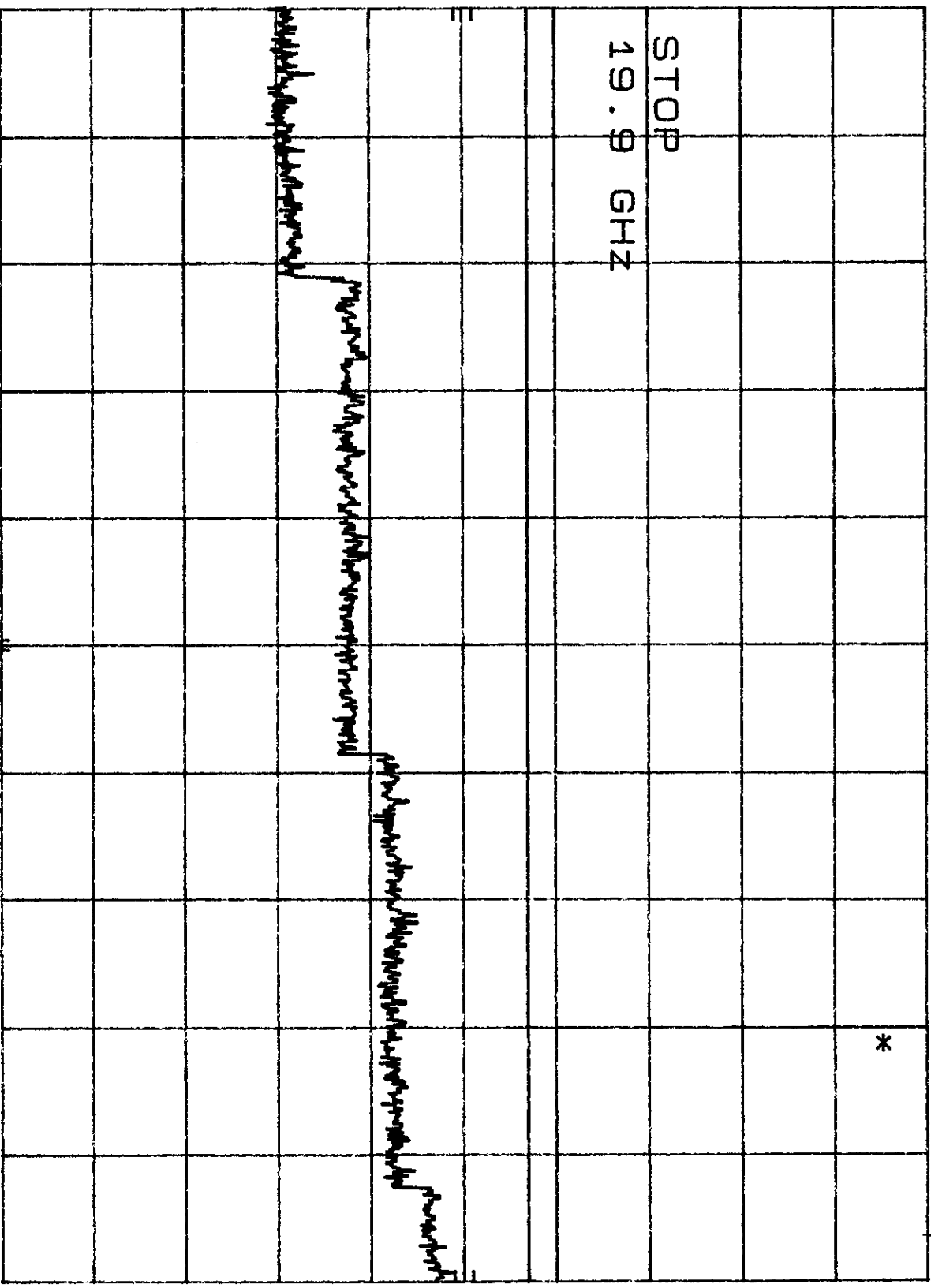
69

#69

PK

WJ SPURIOUS
HP REF 30.0 DBM ATTEN 40 DB
10 DB/

DL
-13.0
DBM



START 2.0 GHz RES BW 1 MHz VBW 1 MHz STOP 19.9 GHz SWP 448 msec

#69

67

#69 PK

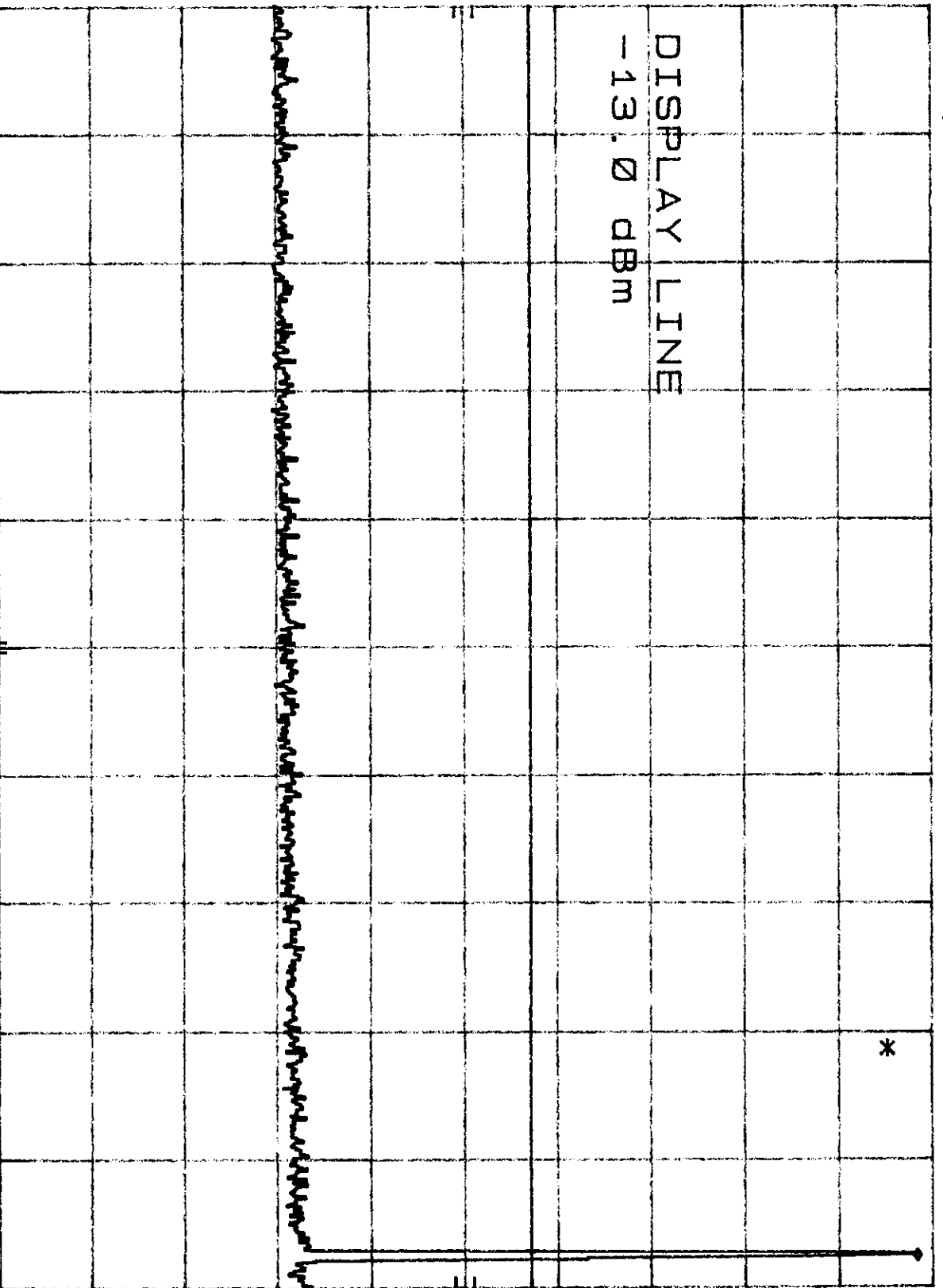
WJ SPURIOUS
REF 30.0 DBM

ATTEN 40 DB

MKR 1.951 GHZ
28.40 DBM

HP
10 DB/

DL
-13.0
dBm



START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SWP 49.3 msec

#69

hp

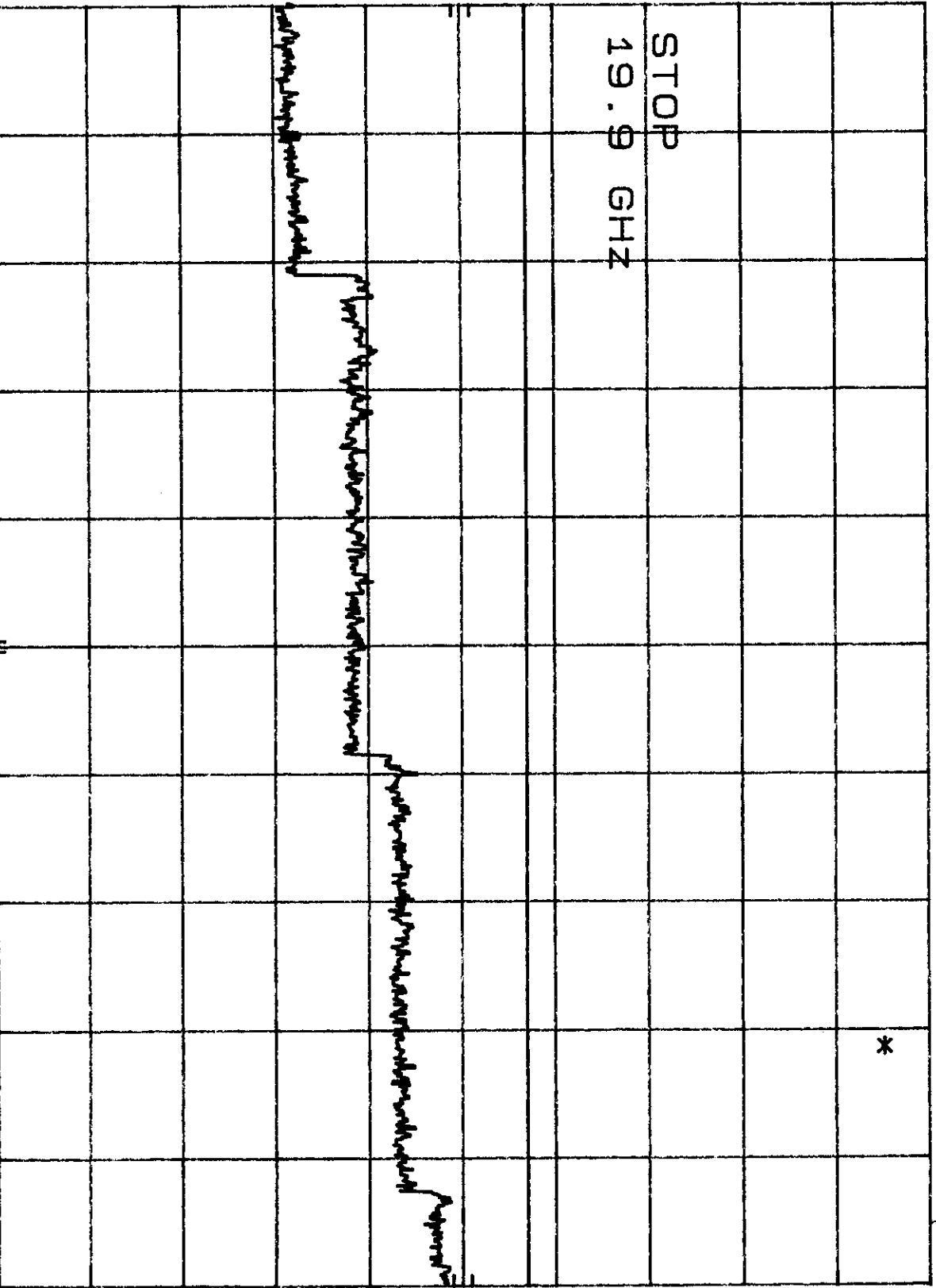
WJ SPURIOUS REF 30.0 DBM ATTEN 40 DB

10 DB/

DL
-13.0
dBm

STOP

19.9 GHZ



START 2.0 GHZ RES BW 1 MHZ VBW 1 MHZ SWP 448 msec STOP 19.9 GHZ

OK

#70

PK

#70

70

#70 PK

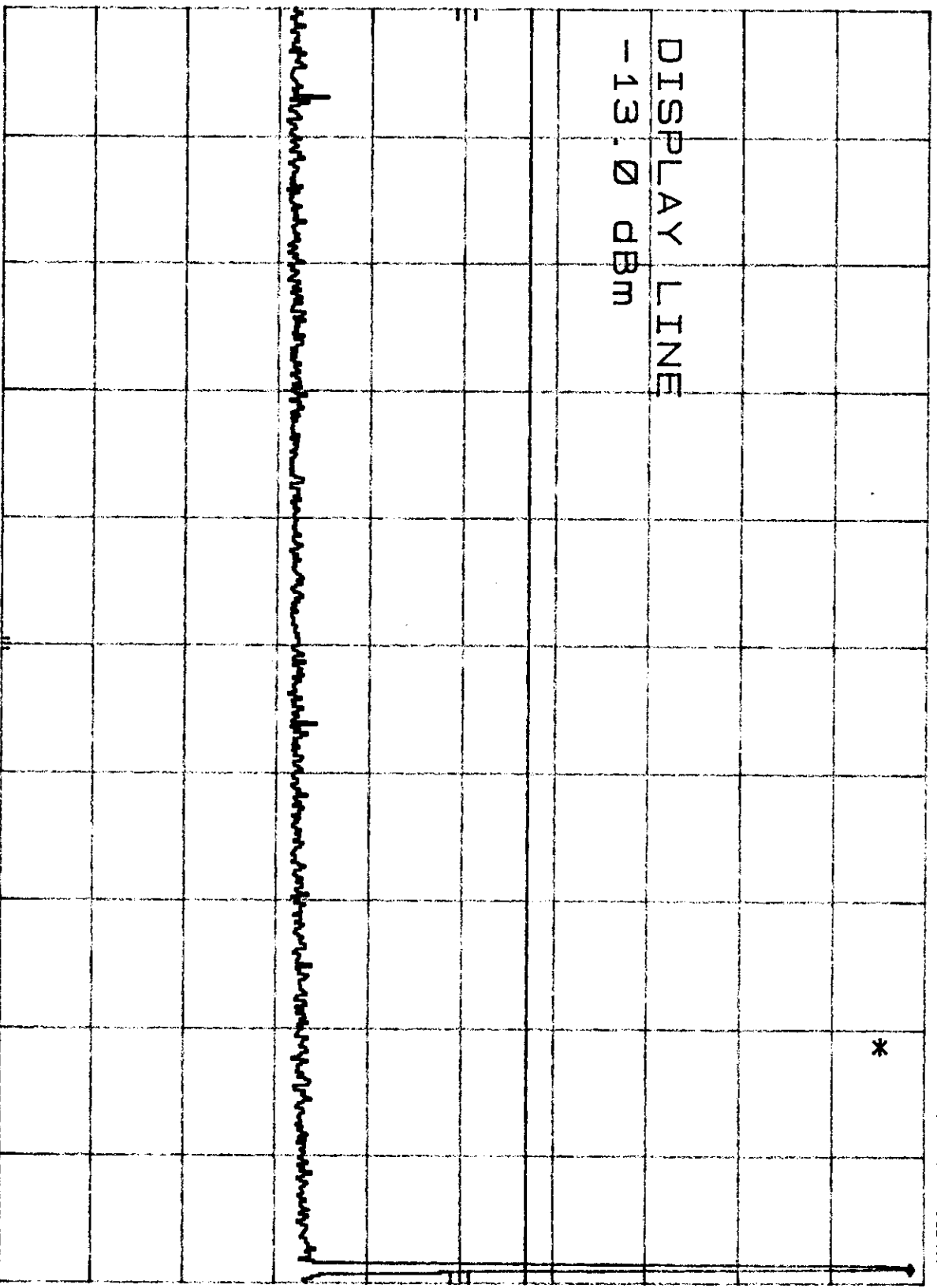
WJ SPURIOUS
REF 30.0 DBM

ATTEN 40 DB

MKR 1.976 GHZ
28.60 DBM

10 DB/

DL
-13.0
DBM



START 30 MHZ
RES BW 1 MHZ

VBW 1 MHZ

STOP 2.00 GHZ
SMP 49.3 msec

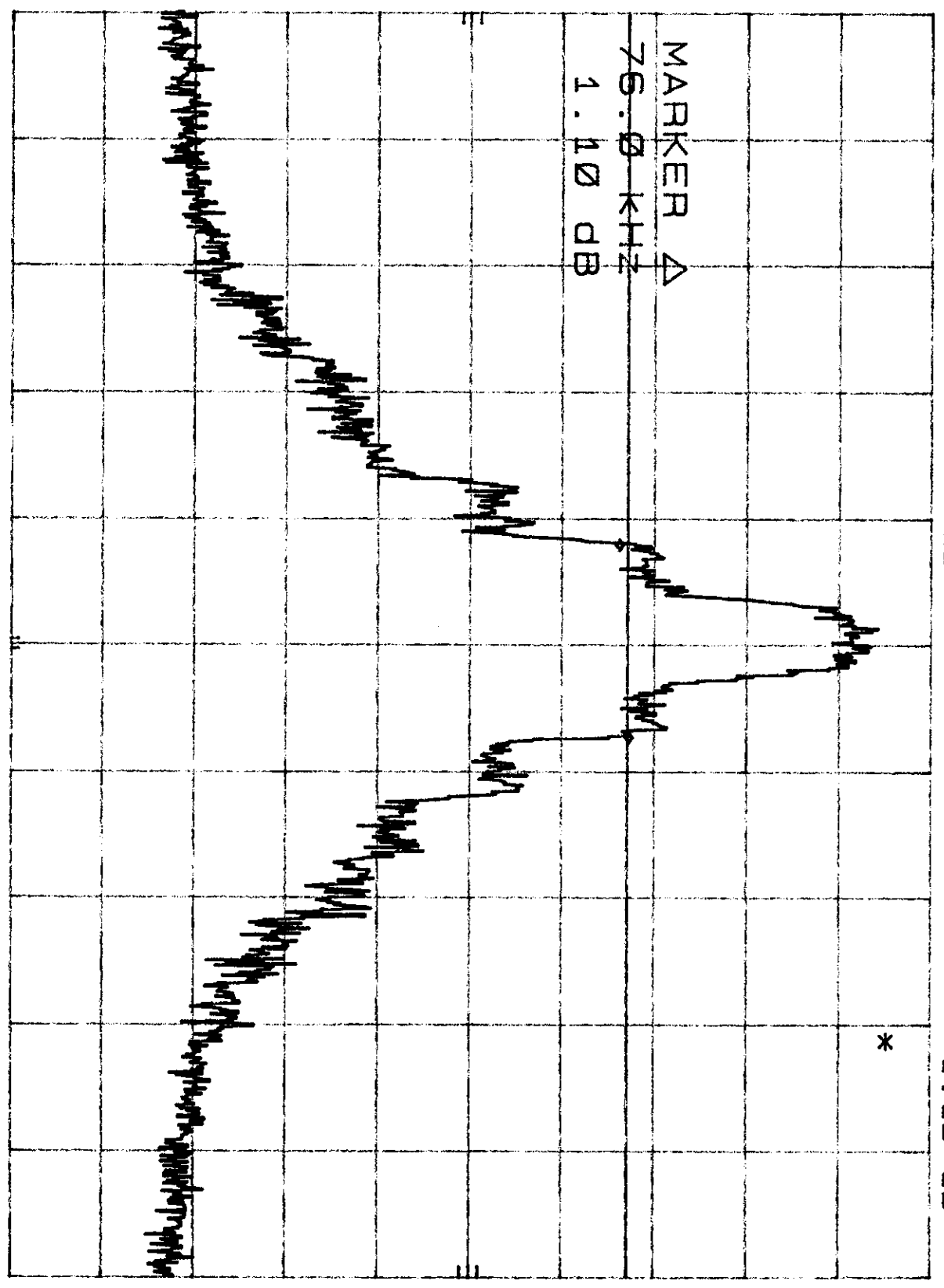
#70

71

#71 PK

WJ BANDWIDTH
 REF 30.0 DBm
 ATTEN 40 DB
 MKR Δ 76.0 KHZ
 1.10 DB

DL
 -2.9
 DBm



CENTER 1.975 050 GHZ
 RES BW 1 KHZ
 VBW 1 MHZ
 SPAN 500 KHZ
 SWP 1.50 sec

#71

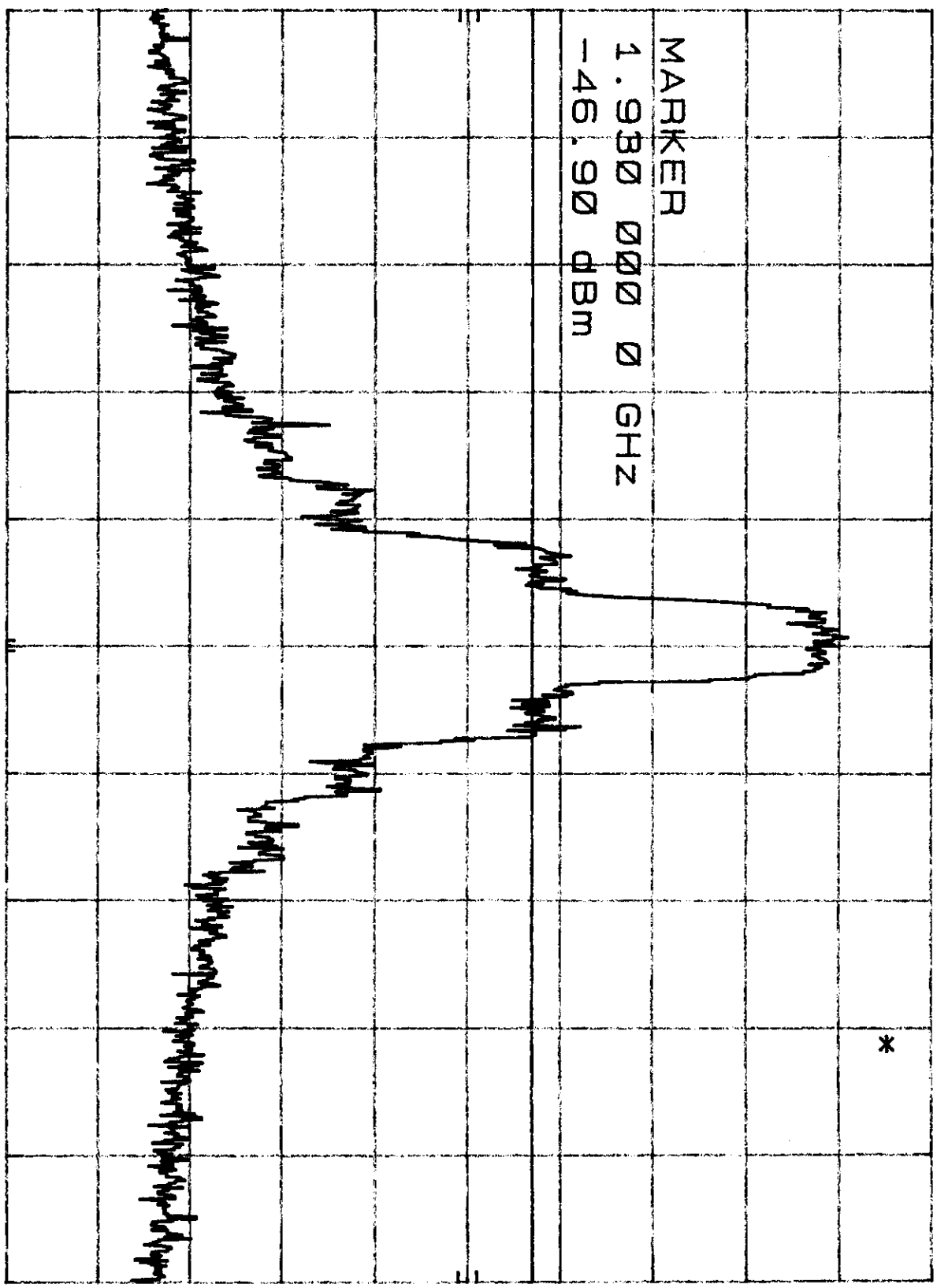
22

#72 PK

WB BANDEDGES REF 30.0 DBM ATTEN 40 DB MKR 1.930 000 0 GHZ

10 DB/

DL -13.0 DBM



CENTER 1.930 100 GHZ RES BW 1 KHZ VBW 1 MHZ SWP 1.50 sec SPAN 500 KHZ

#72

73

#73

PK

HP

WJ BANDEDGES
REF 30.0 DBM

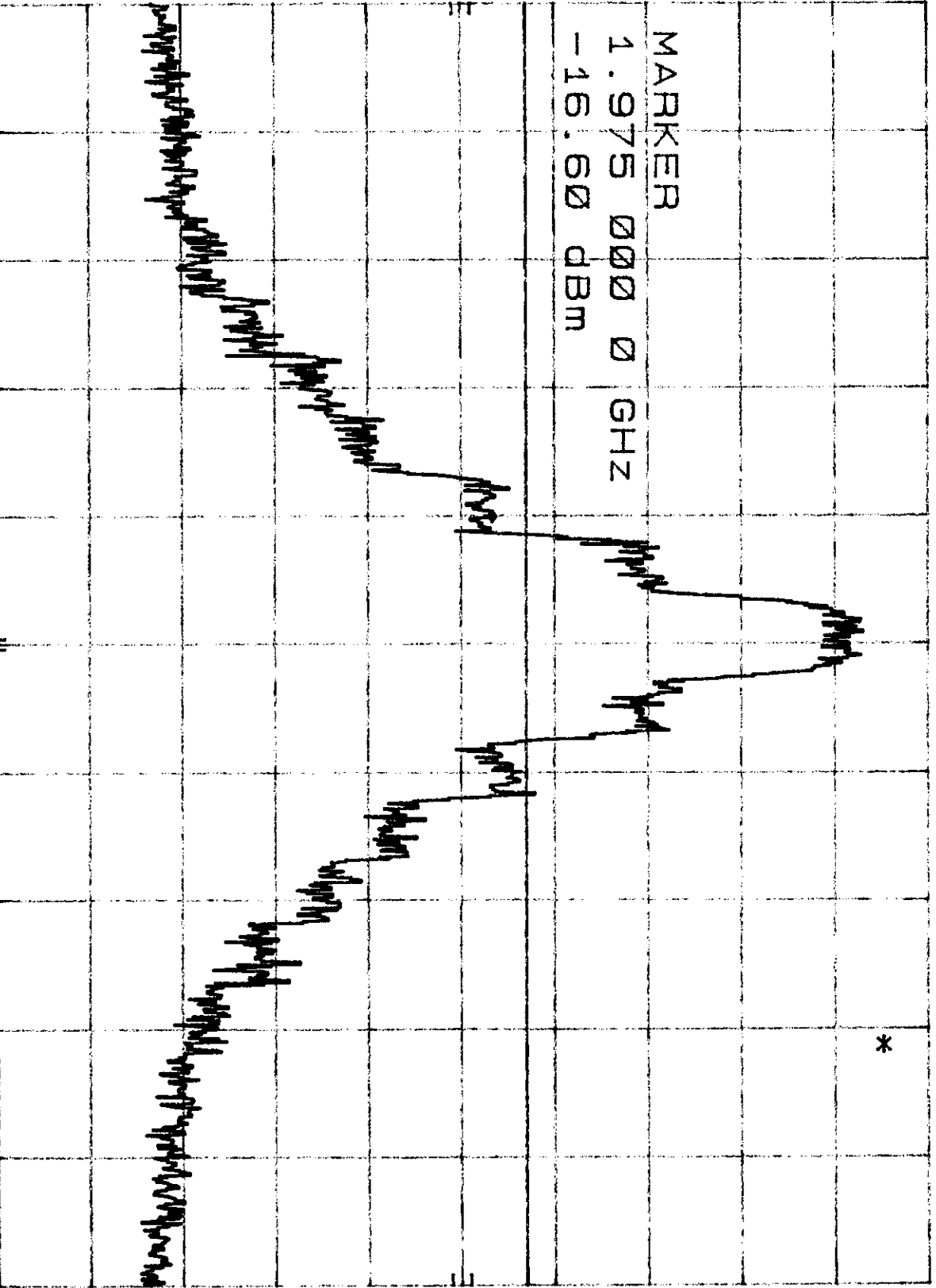
ATTEN 40 DB

MKR 1.975 000 0 GHZ
-16.60 DBM

10 DB/

DL
-13.0
DBM

MARKER
1.975 000 0 GHZ
-16.60 DBM



CENTER 1.975 050 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

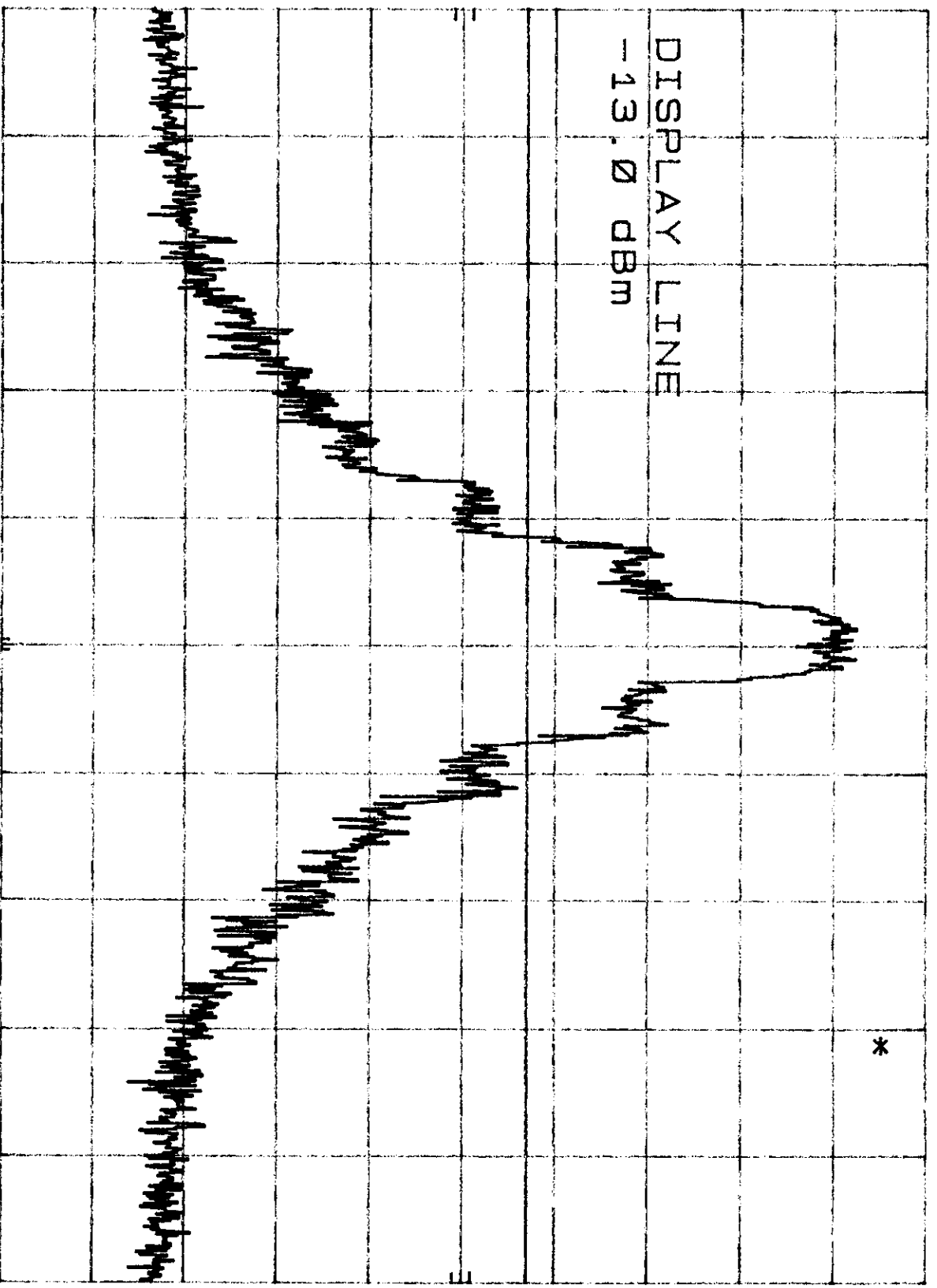
#73

94

#74

WJ BANDEDGES
 REF 30.0 DBM
 ATTEN 40 DB
 MKR 1.990 000 0 GHZ
 -18.90 DBM
 10 DB/

DL
 -13.0
 DBM



CENTER 1.989 950 GHZ
 RES BW 1 KHZ
 VBW 1 MHZ
 SWP 1.50 sec
 SPAN 500 KHZ

#74

75

#75 R

HP WJ BANDEDGES
REF 30.0 DBM

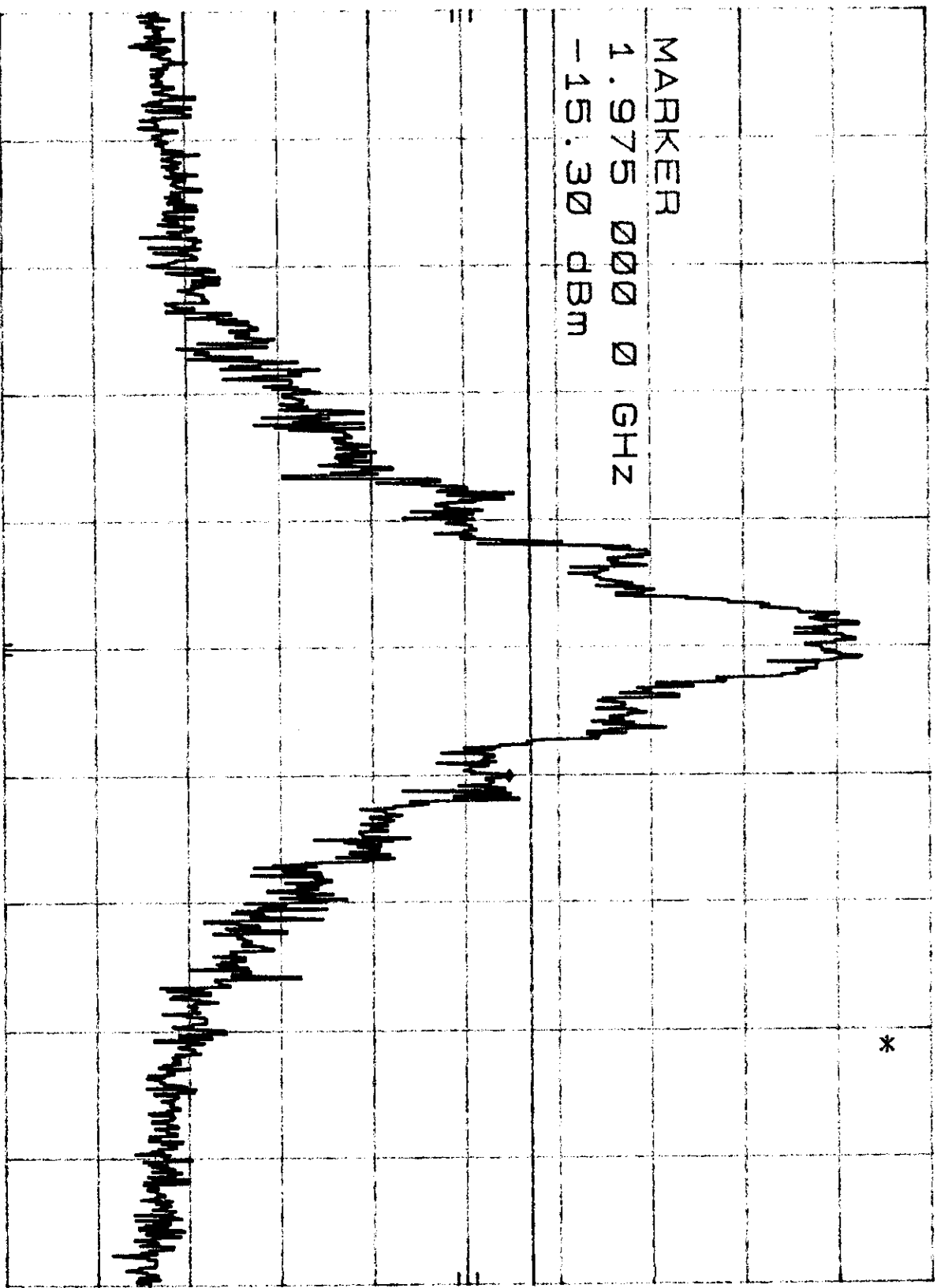
ATTEN 40 DB

MKR 1.975 000 0 GHZ
-15.30 DBM

10 DB/

DL
-13.0 DBM

MARKER
1.975 000 0 GHZ
-15.30 DBM



CENTER 1.974 950 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#75

76

#76 R

WJ BANDEDGES
REF 30.0 dBm

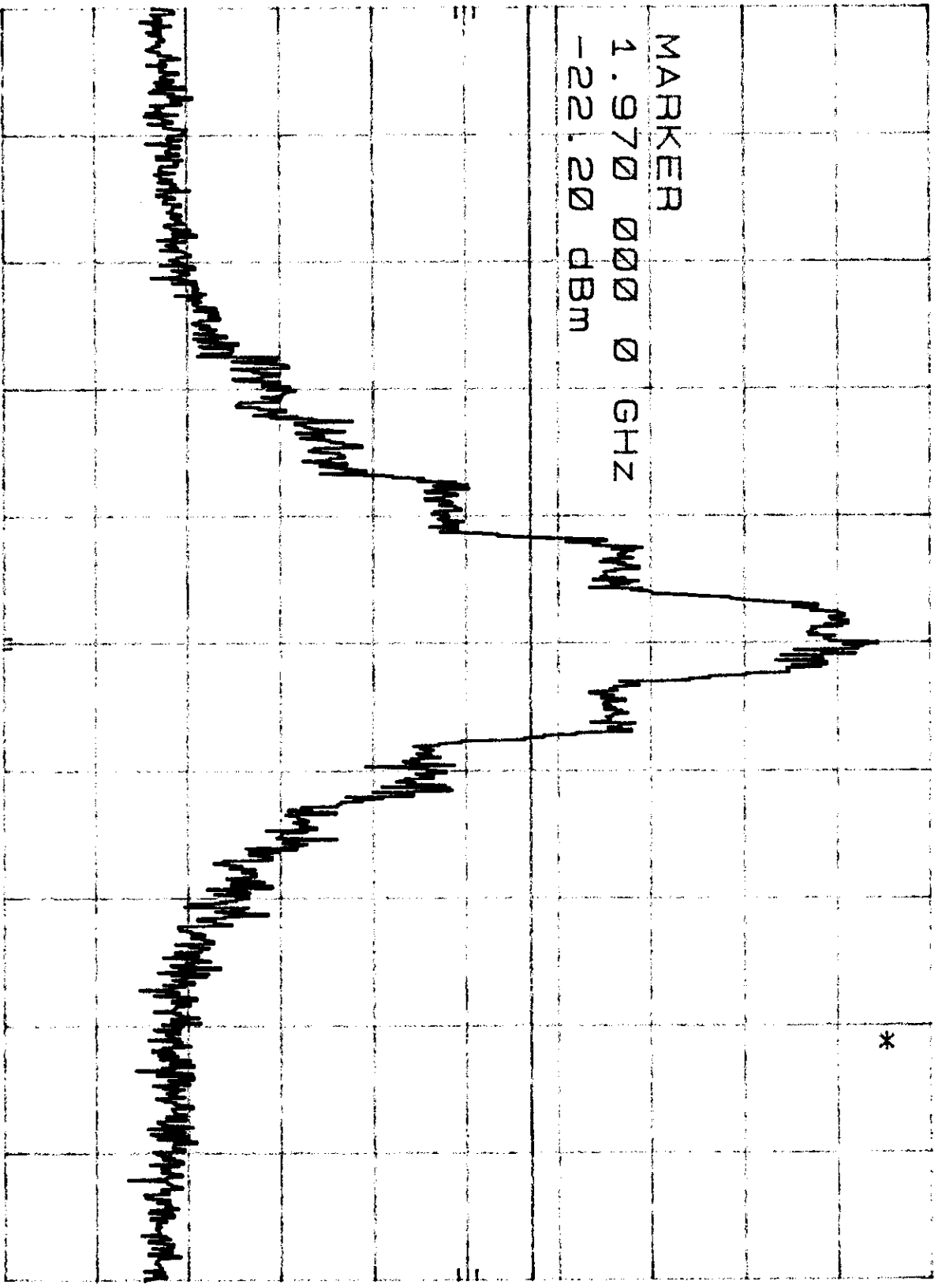
ATTEN 40 DB

MKR 1.970 000 0 GHZ
-22.20 dBm

hpa
10 DB/

DL
-13.0
dBm

MARKER
1.970 000 0 GHZ
-22.20 dBm



CENTER 1.970 050 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#76

HP

WJ BANDEDGES
REF 30.0 DBM

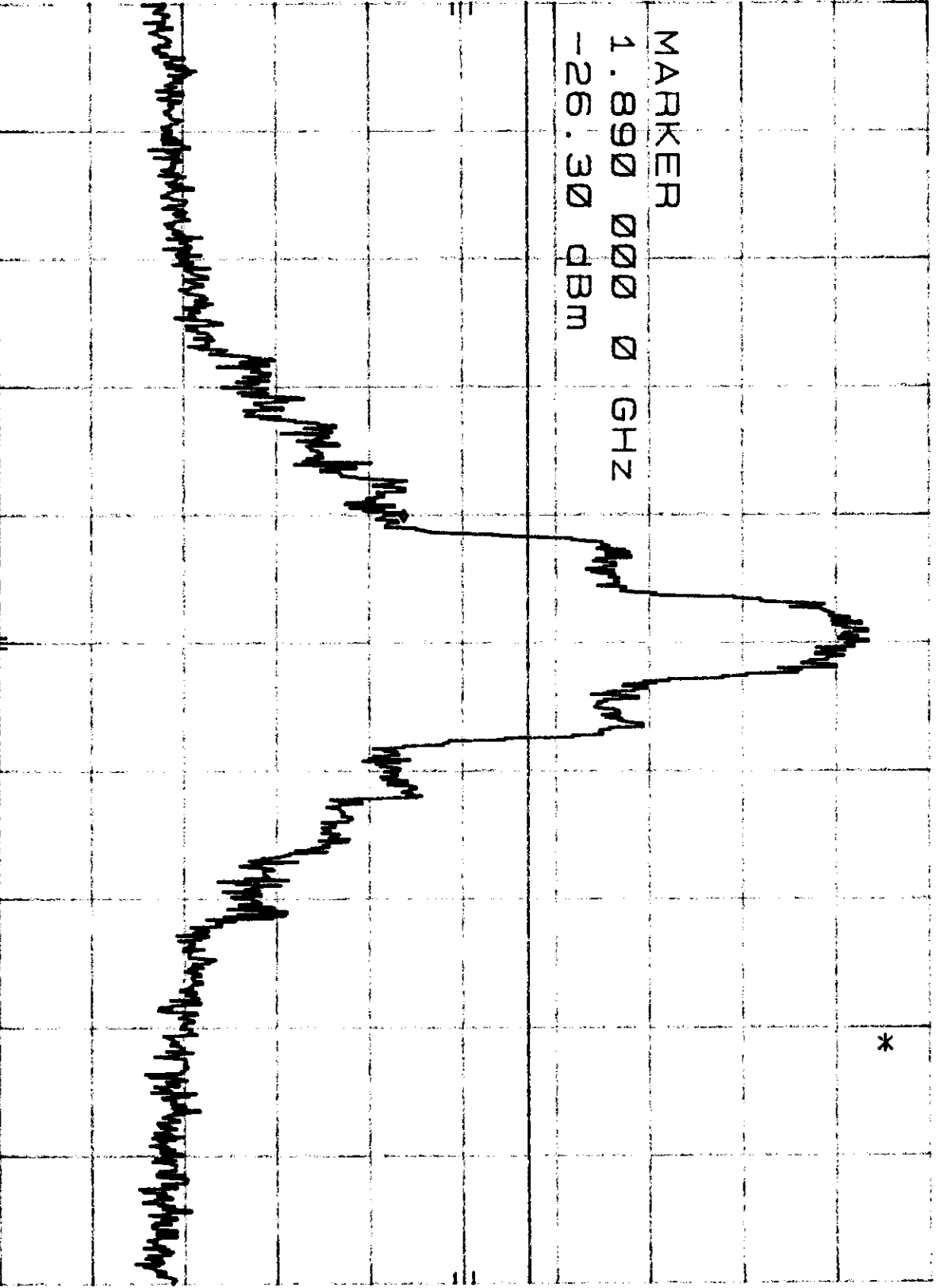
ATTEN 40 DB

MKR 1.890 000 0 GHZ
-26.30 DBM

10 DB/

DL
-13.0
DBM

MARKER
1.890 000 0 GHZ
-26.30 DBM



CENTER 1.890 050 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

77

#77

PK

#77

WJ BANDEDGES
HP REF 30.0 dBm

ATTEN 40 dB

MKR 1.895 000 0 GHz
-29.00 dBm

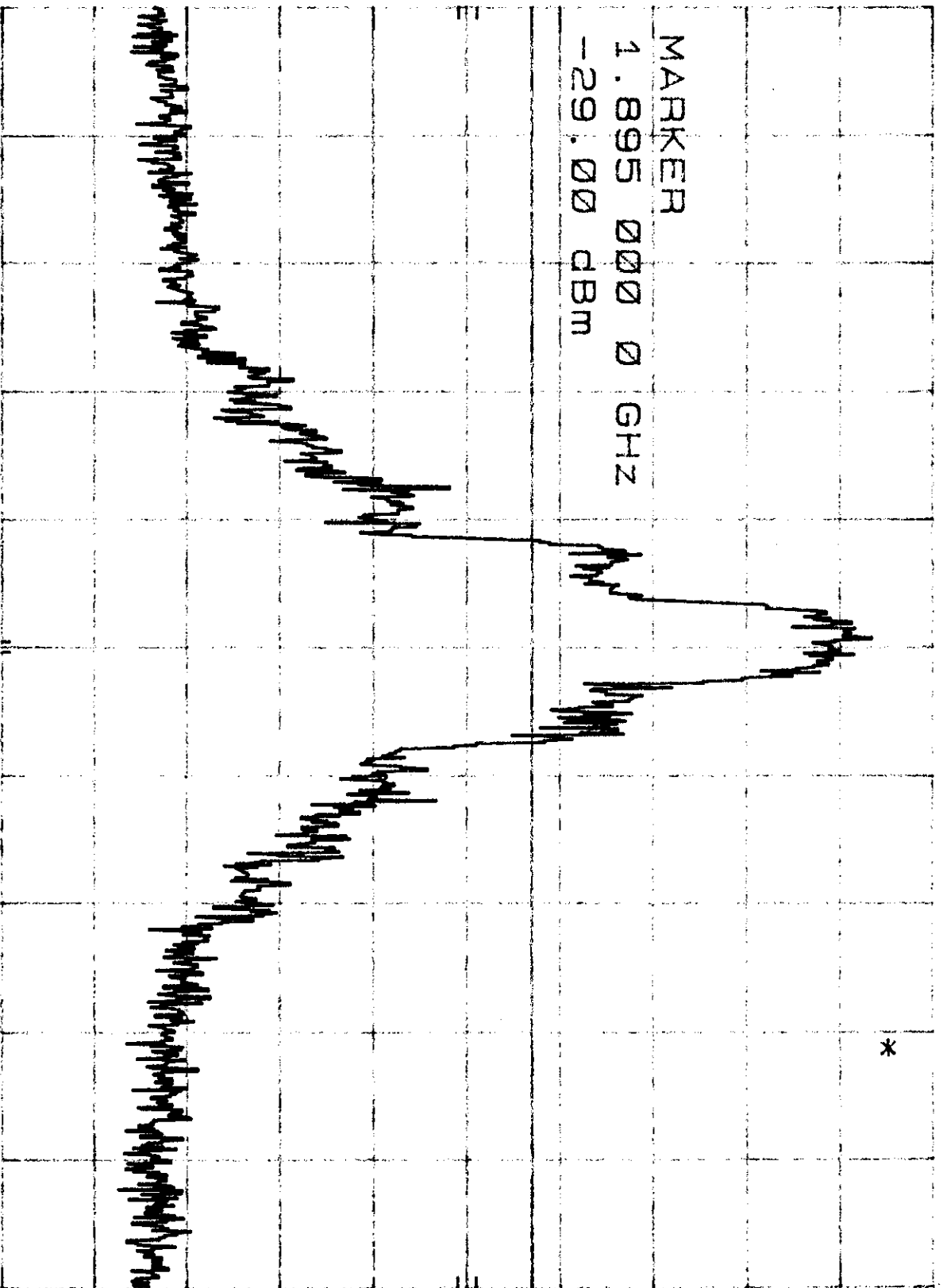
#78

#78 PK

10 dB/

DL
-13.0
dBm

MARKER
1.895 000 0 GHz
-29.00 dBm



CENTER 1.894 950 GHz
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

#78

79

HP WJ BANDEDGES REF 30.0 DBM ATTEN 40 DB

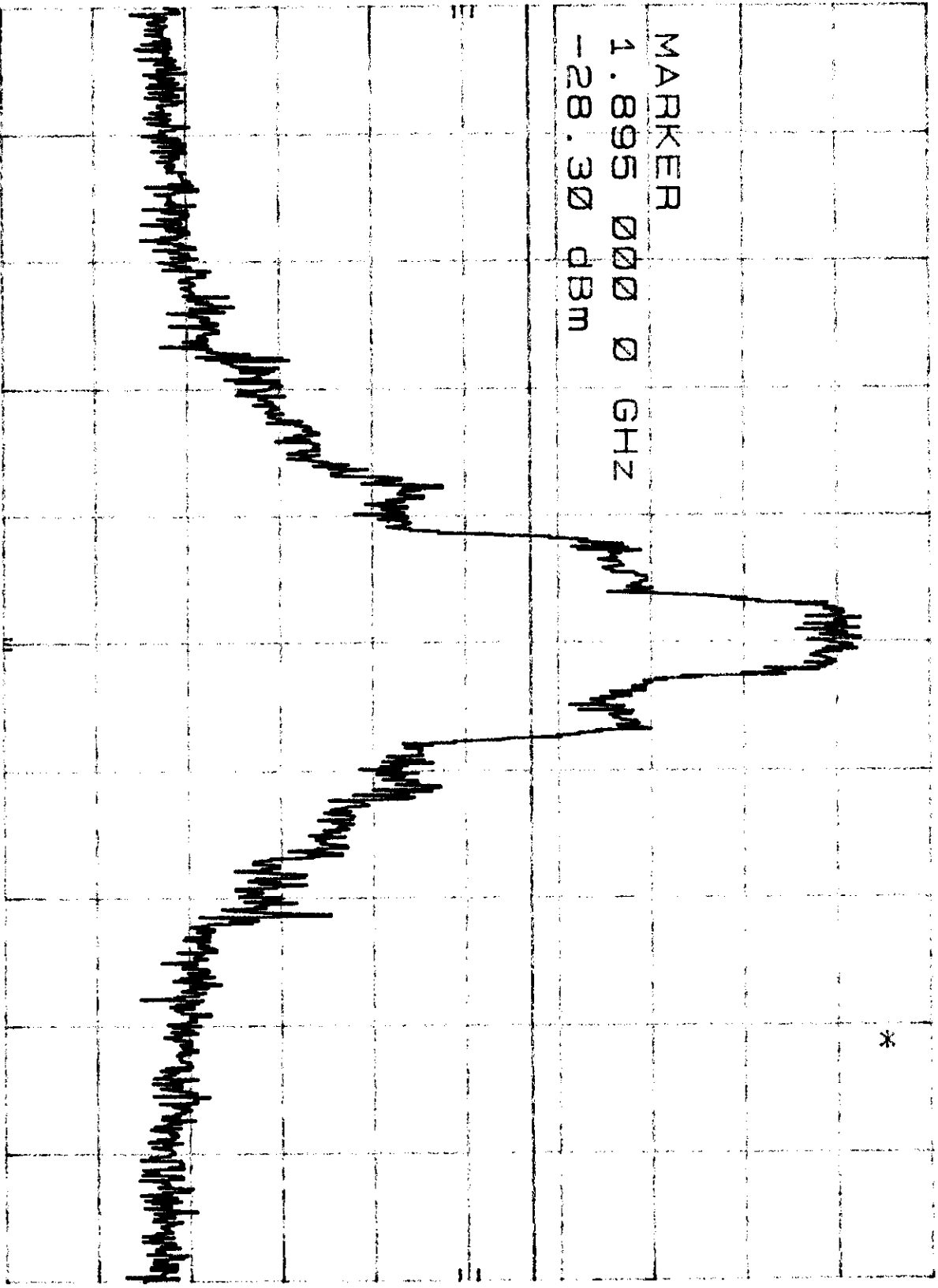
MKR 1.895 000 0 GHZ -28.30 DBM

#79 PK

10 DB/

DL -13.0 DBM

MARKER 1.895 000 0 GHZ -28.30 DBM



CENTER 1.895 050 GHZ RES BW 1 KHZ VBW 1 MHZ SPAN 500 KHZ SWP 1.50 sec

#79

80

WJ BANDEDGES REF 30.0 DBM ATTEN 40 DB

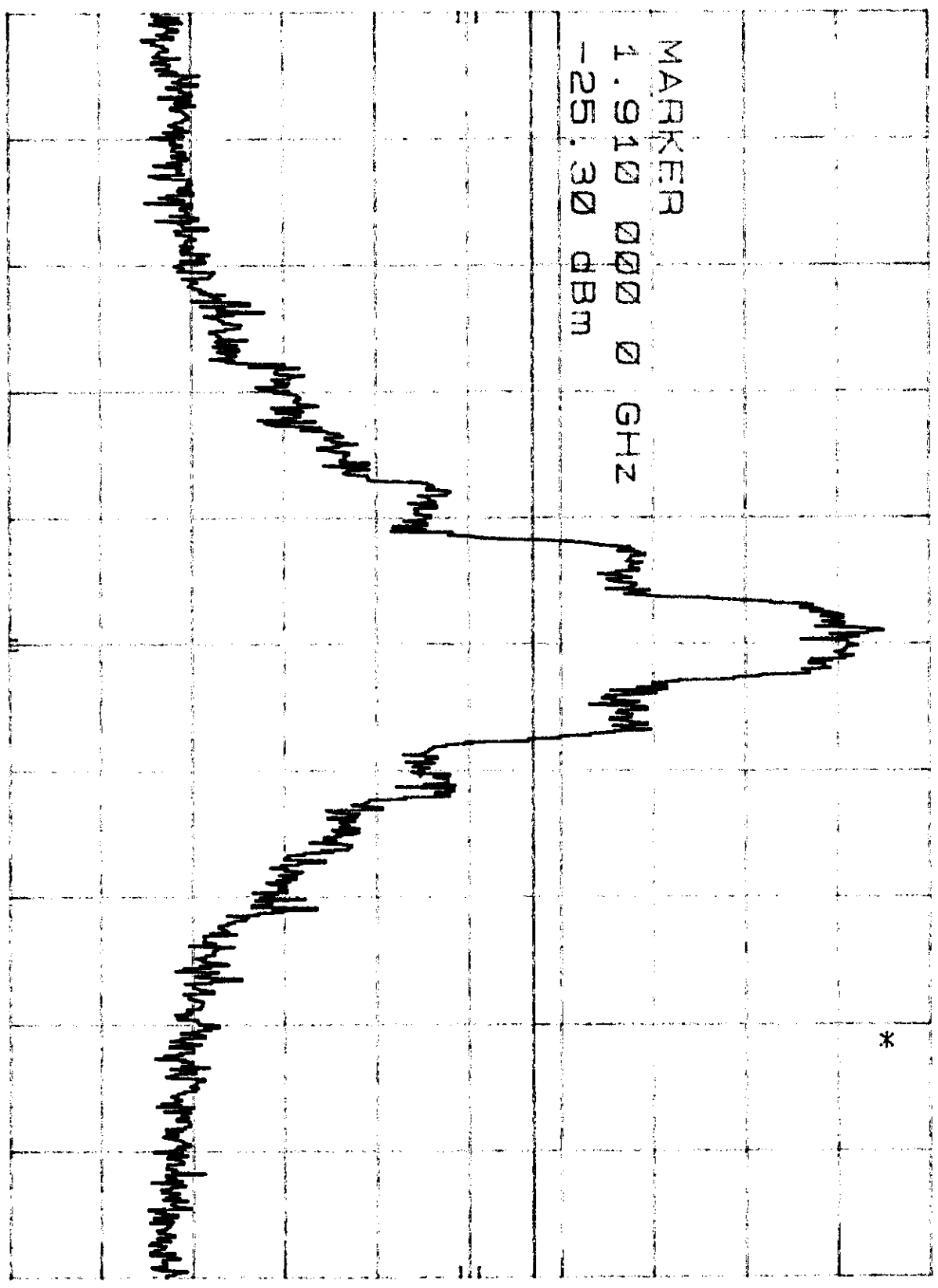
MKR 1.910 000 0 GHZ -25.30 DBM

#80 PK

h
10 DB/

DL
-13.0
dBm

MARKER
1.910 000 0 GHZ
-25.30 DBM



CENTER 1.909 950 GHZ RES BW 1 KHZ VBW 1 MHZ SPAN 500 KHZ SWP 1.50 sec

#80

HP

WJ BANDWIDTH REF 30.0 DBM

ATTEN 40 DB

MKR Δ 74.0 KHZ

0.80 DB

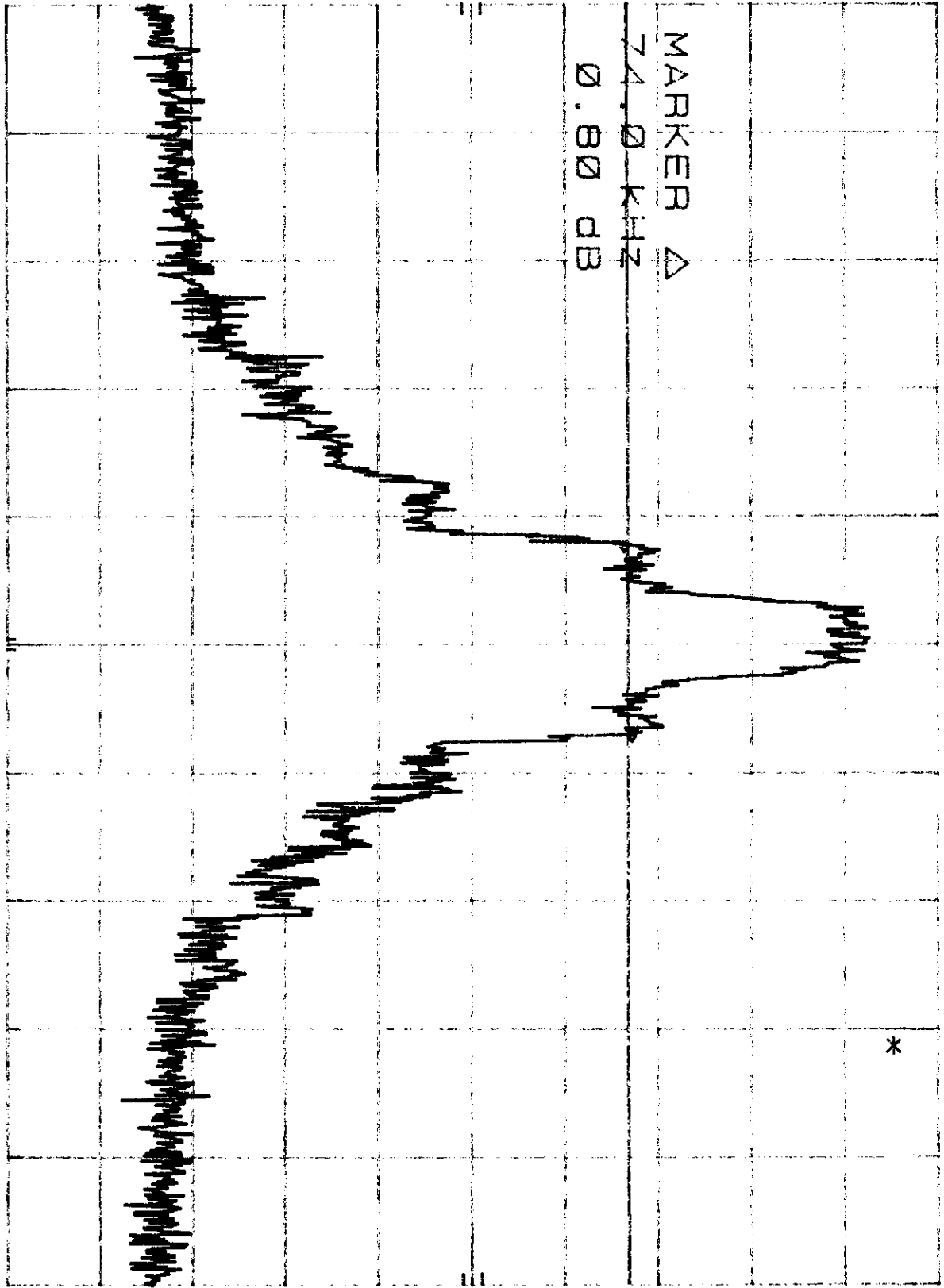
10 DB/

DL
-3.3
dBm

MARKER Δ

74.0 KHZ

0.80 DB



CENTER 1.909 950 GHZ
RES BW 1 KHZ

VBW 1 MHZ

SPAN 500 KHZ
SWP 1.50 sec

Q1

#81

PK

#81

82

#82 PK

472

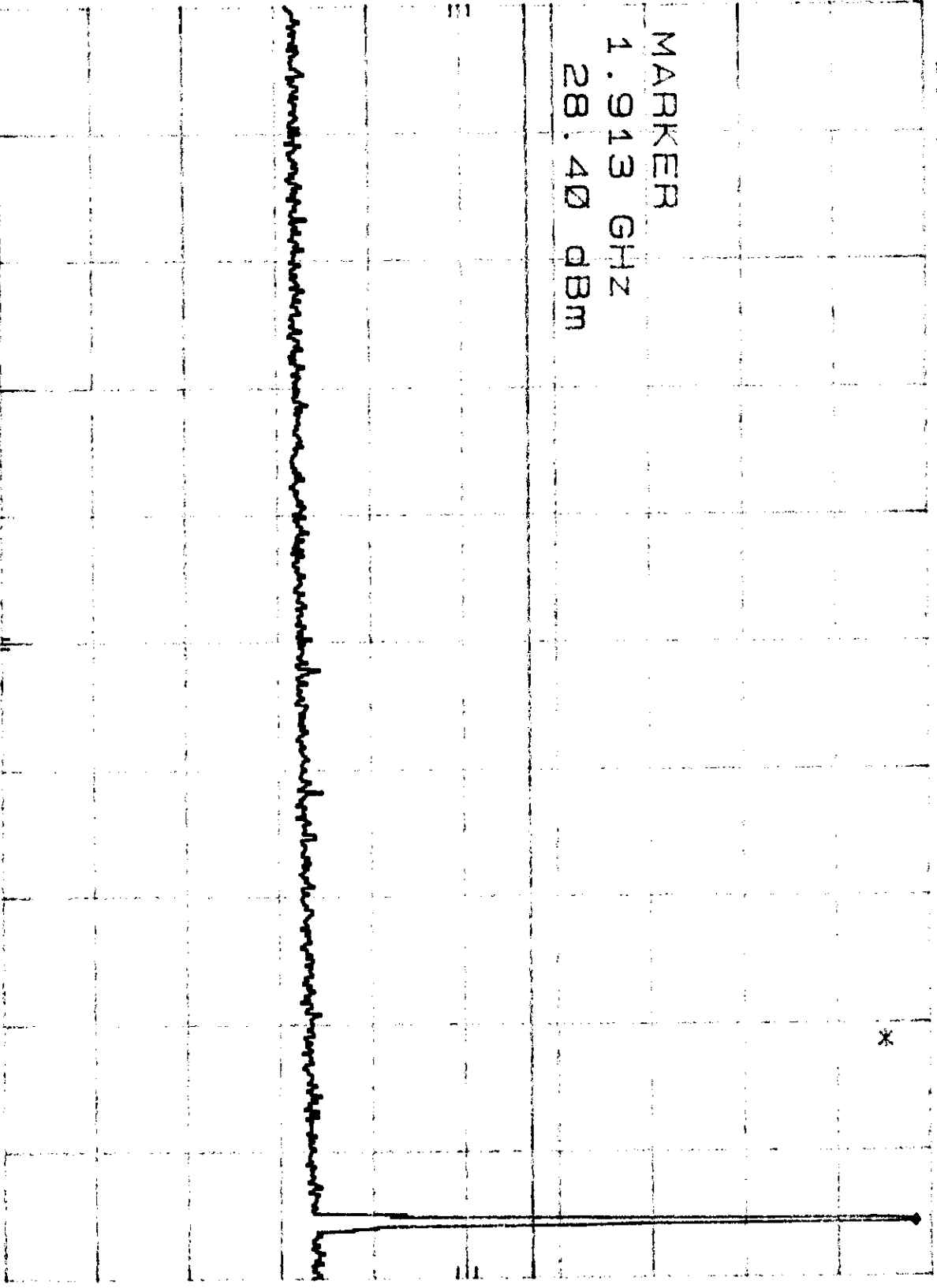
WJ SPURIOUS
REF 30.0 dBm
ATTEN 40 dB

MKR 1.913 GHz
28.40 dBm

10 dB/

DL
-13.0
dBm

MARKER
1.913 GHz
28.40 dBm



START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SWP 49.3 msec

#82

WJ SPURIOUS
HP REF 30.0 DBM ATTEN 40 DB
10 DB/

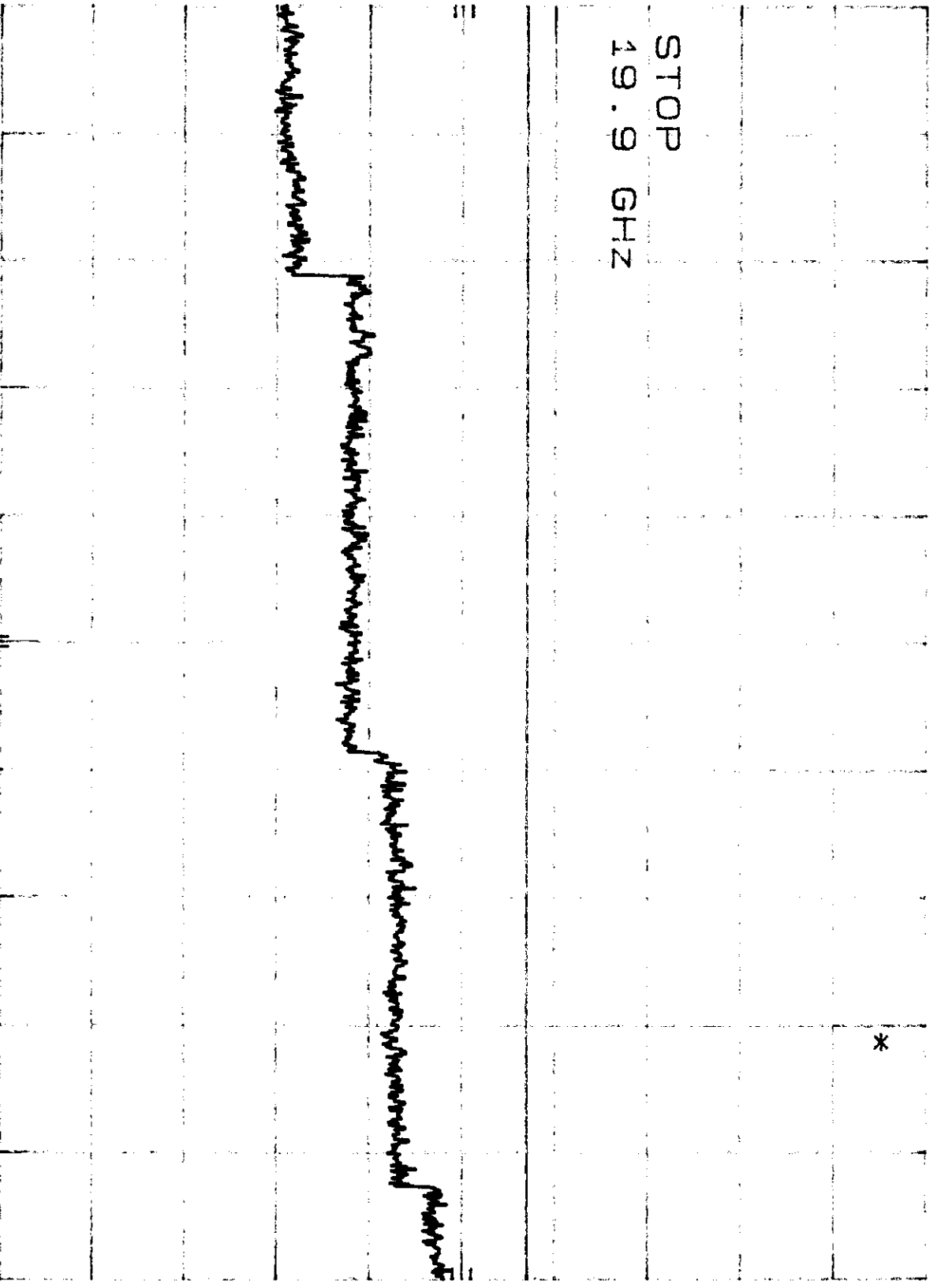
62

MKR 19.11 GHz
-22.90 DBM

#82 PK

DL
-13.0
DBM

STOP
19.9 GHz



START 2.0 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 19.9 GHz
SWP 448 msec

#82

93

#83

PK

WJ SPURIOUS
HP REF 30.0 dBm ATTN 40 dB

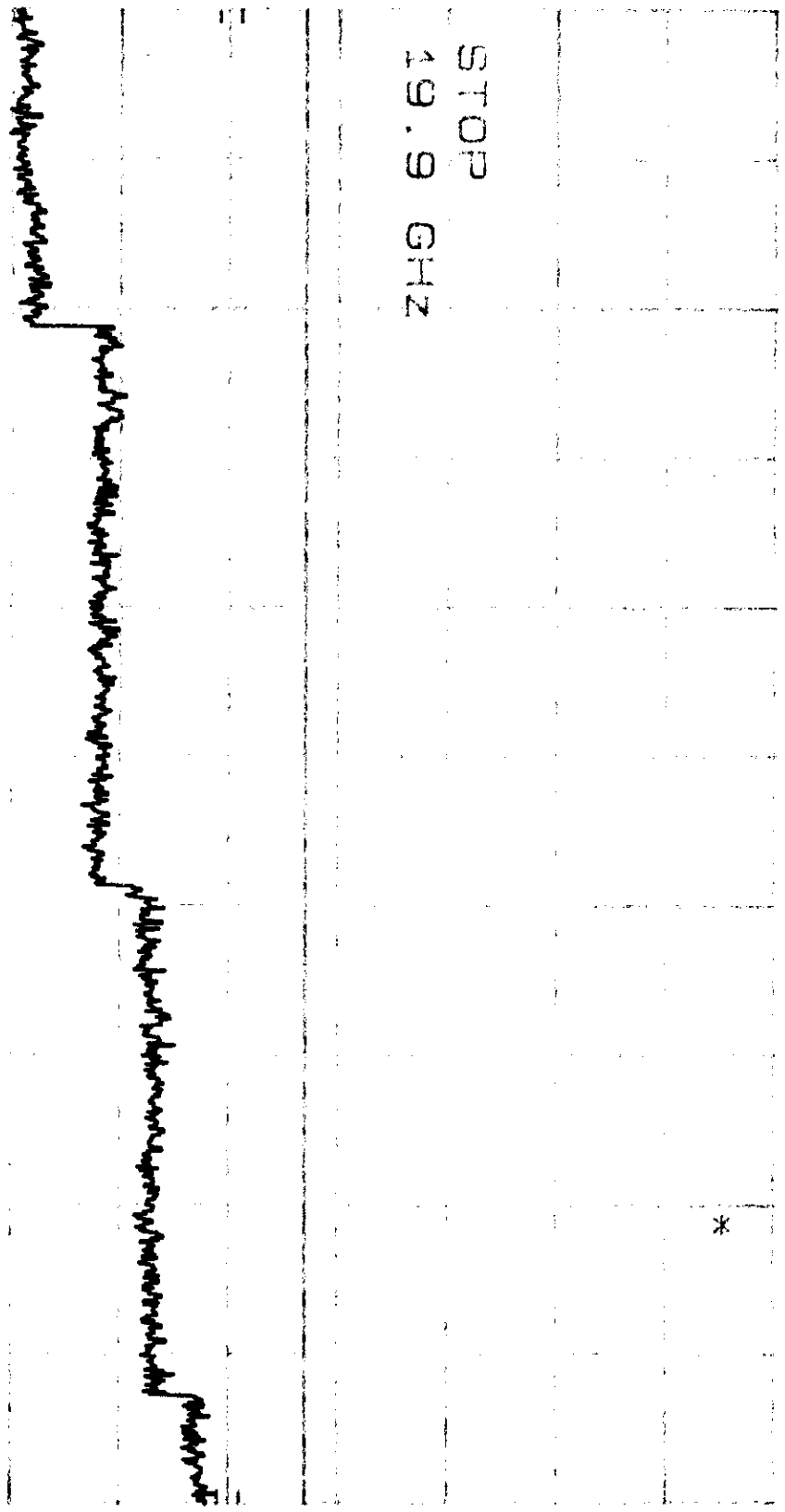
MKR 19.911 GHz
-22.90 dBm

10 dB/

*

DL
-13.0
dBm

STOP
19.9 GHz



START 2.0 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 19.9 GHz
SWP 448 msec

#83

63

#83 K

WJ SPURIOUS

MKR 1.913 GHz

HP

REF 30.0 dBm

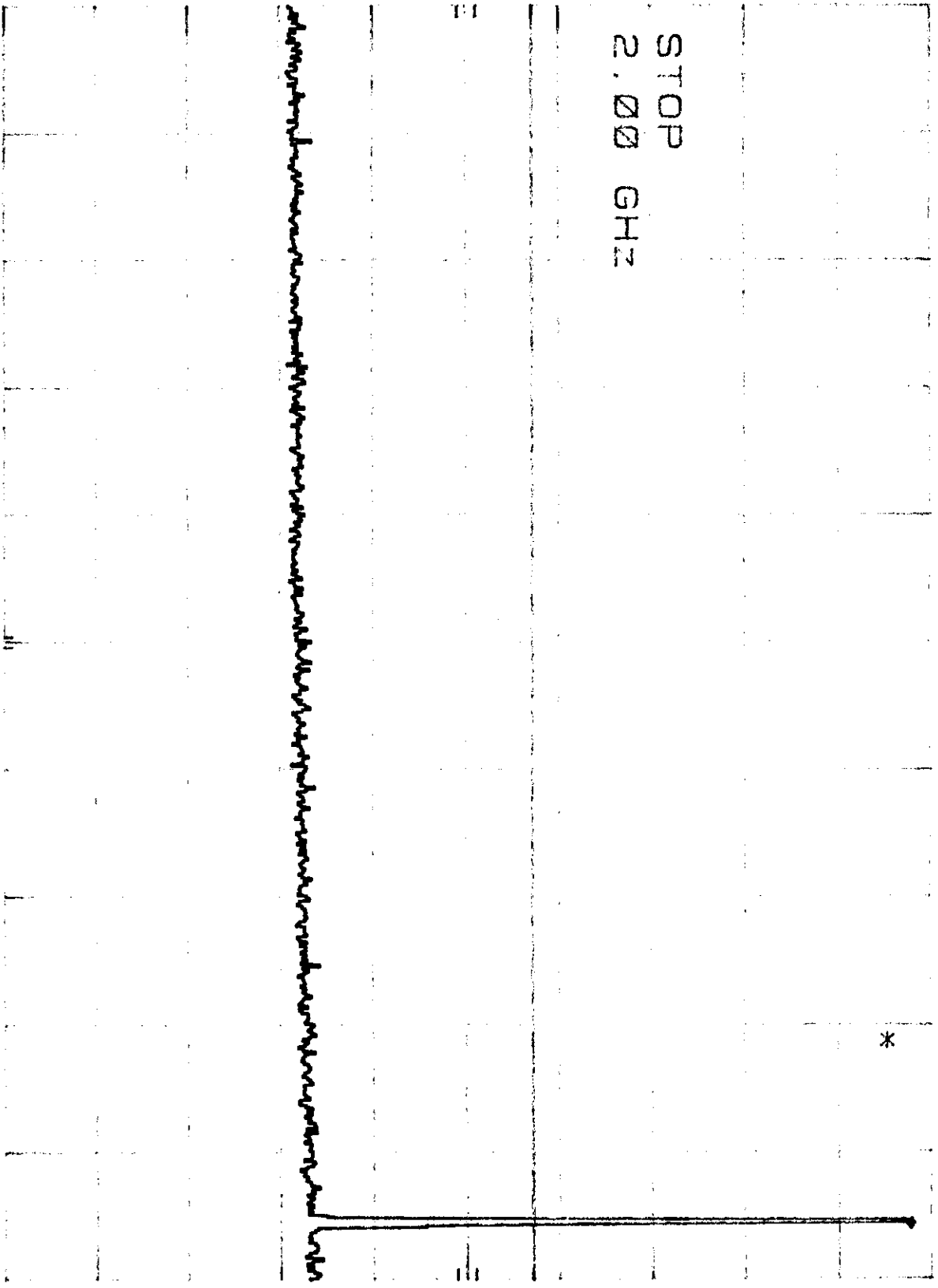
ATTEN 40 dB

27.80 dBm

10 dB/

DL
-13.0
dBm

STOP
2.00 GHz



START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SWP 49.3 msec

#83

84

WJ SPURIOUS

REF 30.0 dBm

ATTEN 40 DB

#84

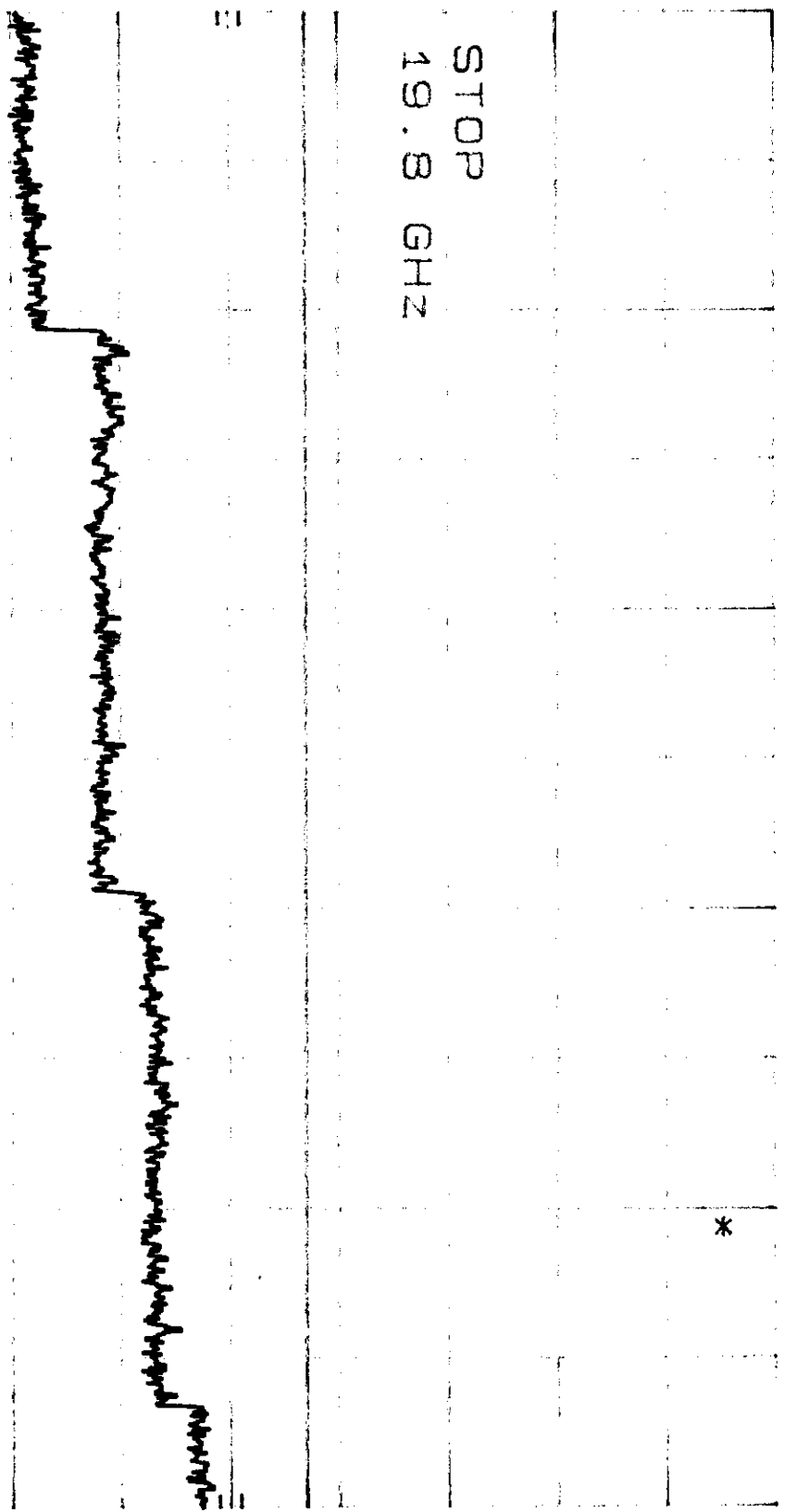
PK

10 dB/

HP

-13.0
DL
dBm

STOP
19.8 GHz



START 2.0 GHz

RES BW 1 MHz

VBW 1 MHz

STOP 19.8 GHz
SMP 445 msec

#84

84

#84 PK

WJ SPURIOUS

HP REF 30.0 DBM

ATTEN 40 DB

MKR 1.852 GHZ

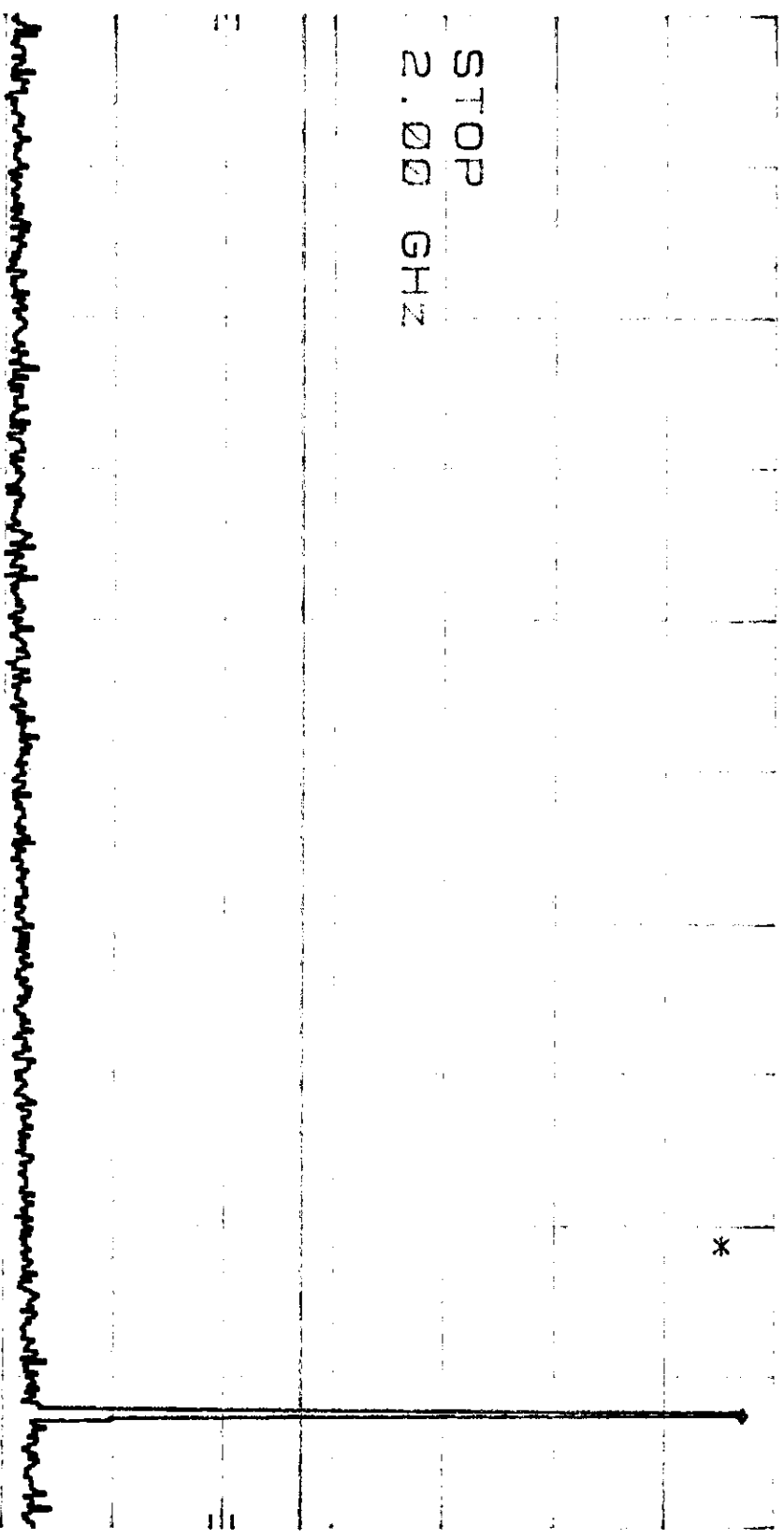
27.20 DBM

10 DB/

DL
-13.0
dbm

STOP

2.00 GHZ



START 30 MHz

RES BW 1 MHz

VBW 1 MHz

STOP 2.00 GHZ
SWP 49.3 msec

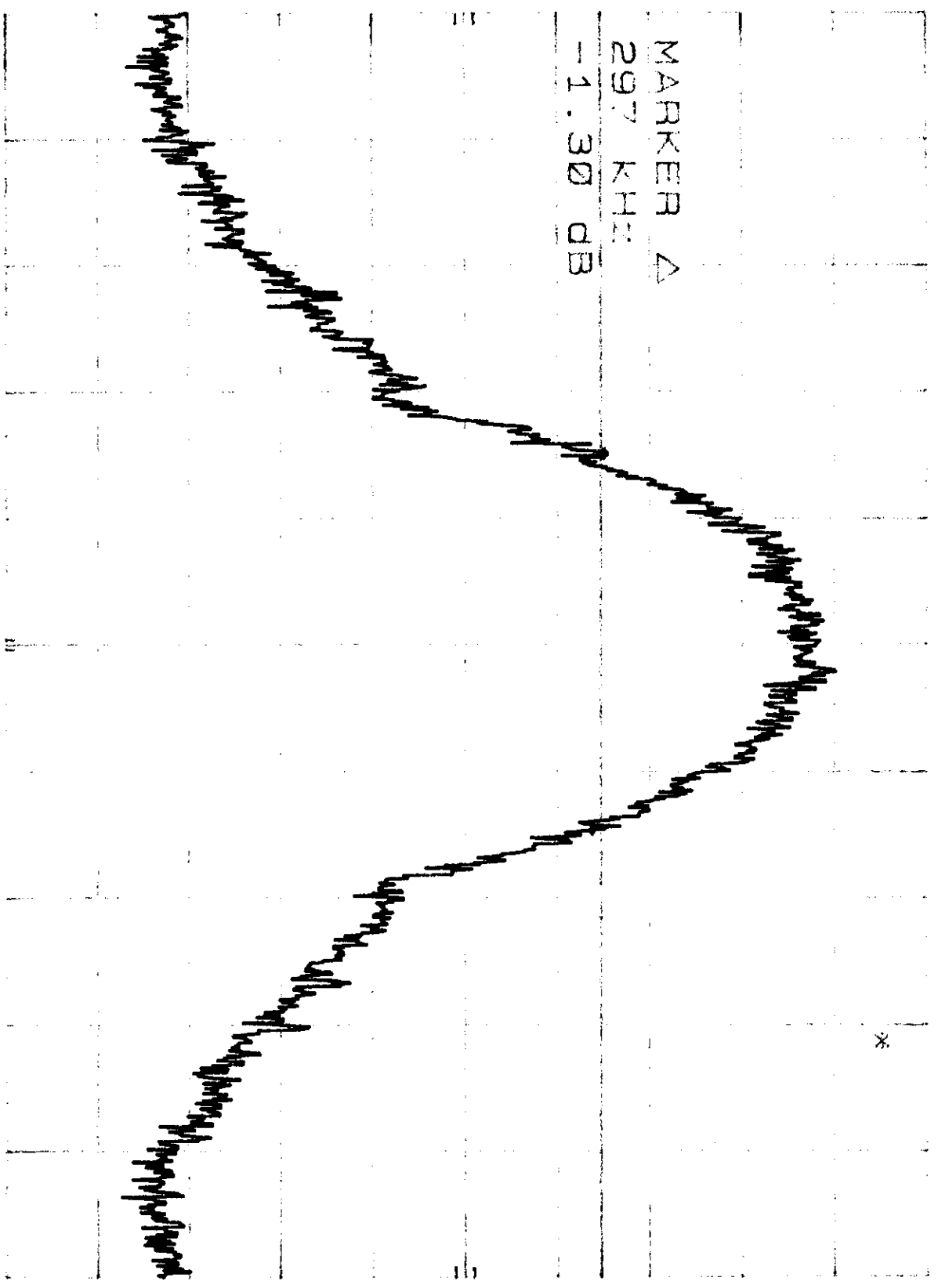
#84

WJ BANDWIDTH
HP REF 30.0 DBM ATTEN 40 DB
10 DB/

MKR Δ 297 KHZ
-1.30 DB

DL
-5.3
DBM

MARKER Δ
297 KHZ
-1.30 DB



CENTER 1.850 20 GHZ
RES BW 3 KHZ
VBW 1 MHZ
SPAN 1.00 MHZ
SWP 300 msec

#85

26

MJ BANDEDGES

REF 30.0 DBM

ATTEN 40 DB

MKR 1.850 000 GHZ

-27.10 DBM

#86
PK

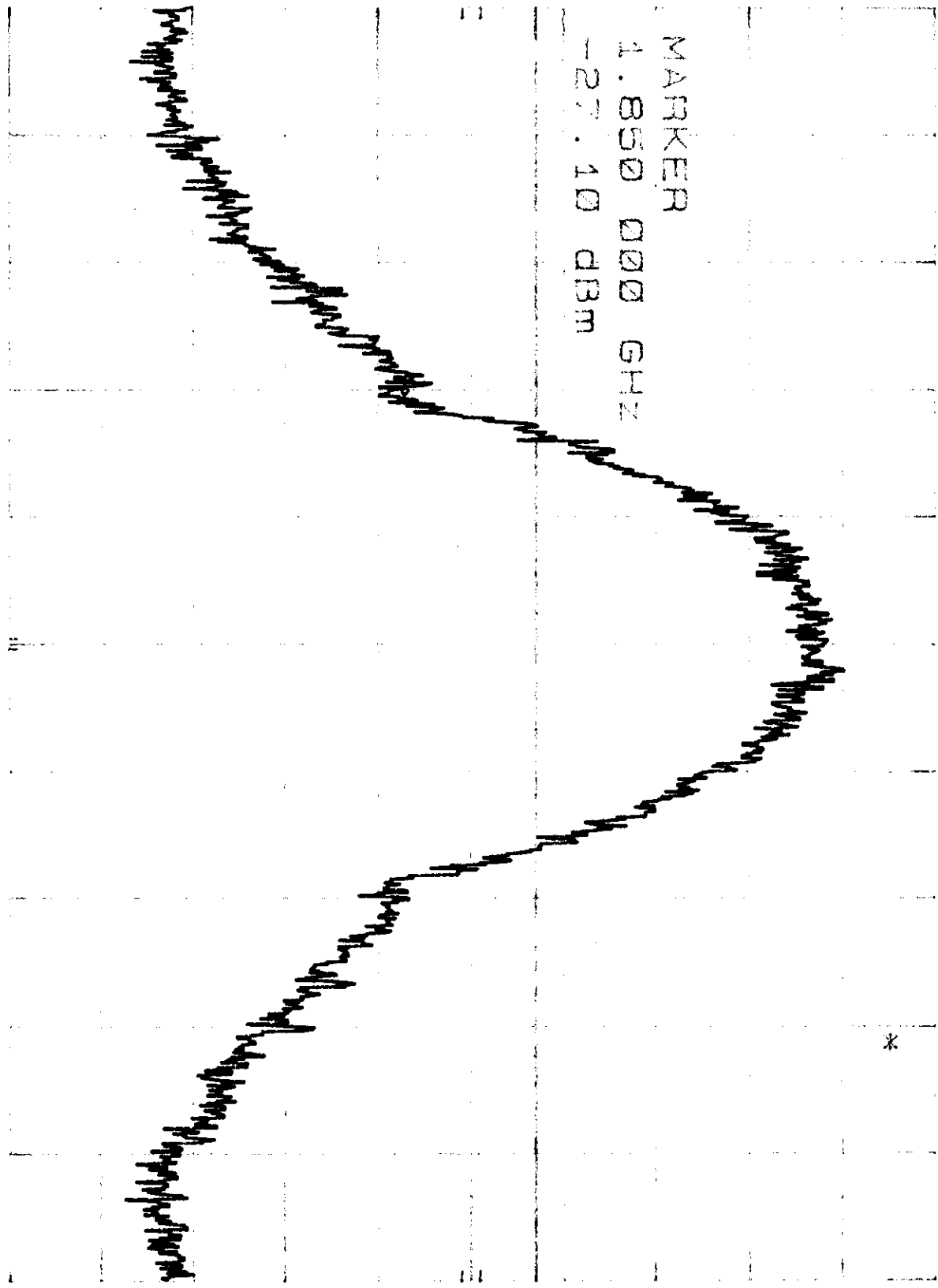
10 DB/

MARKER

DL 1.850 000 GHZ

-13.0 -27.10 DBM

DBM



CENTER 1.850 20 GHZ
RES BW 3 KHZ
VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#86

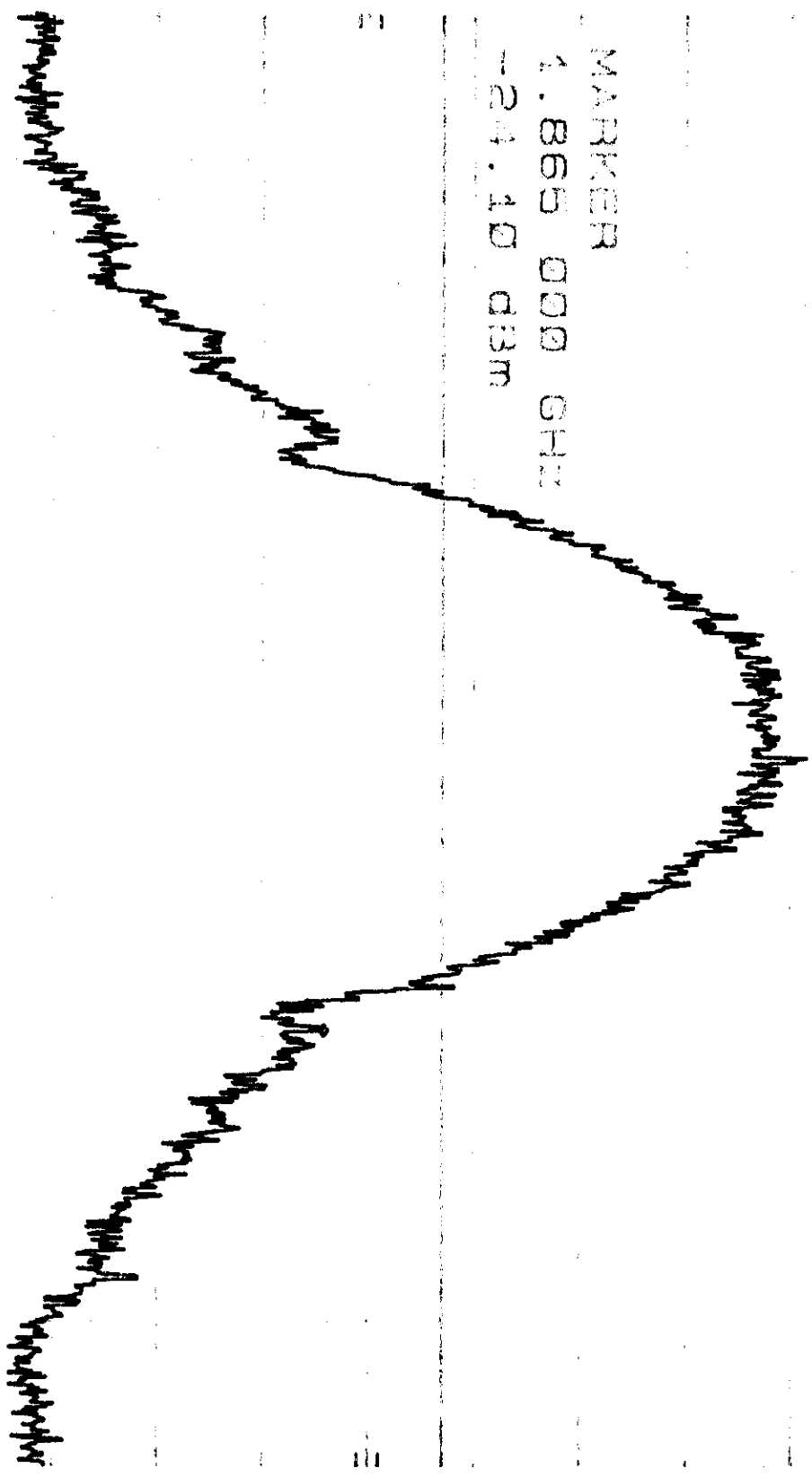
WJ BANDEDGES
REF 30.0 dBm
ATTEN 40 dB
20 dBm

87

MARK 1.865 000 GHz
-24.40 dBm

#87
PK

MARKER
DL 1.865 000 GHz
-43.0 -24.40 dBm



CENTER 1.865 80 GHz
RES BW 3 KHZ
VBW 1 MHz
SPAN 1.00 MHz
SWP 300 msec

#87

88

#88 R

WJ BANDEDGES
HP REF 30.0 dBm

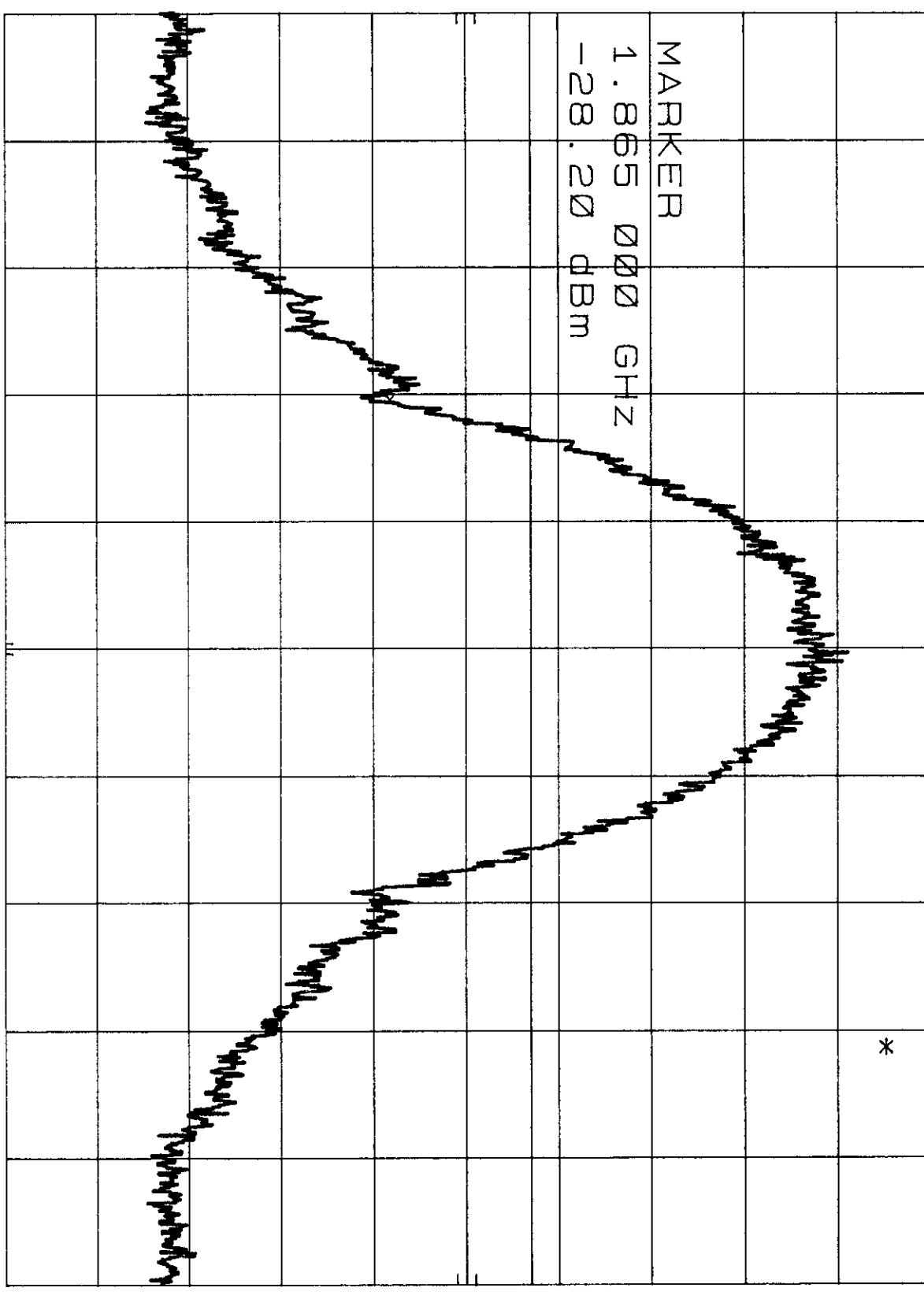
ATTEN 40 dB

MKR 1.865 000 GHz
-28.20 dBm

10 dB/

DL
-13.0
dBm

MARKER
1.865 000 GHz
-28.20 dBm



CENTER 1.865 20 GHz
RES BW 3 KHZ

VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#88

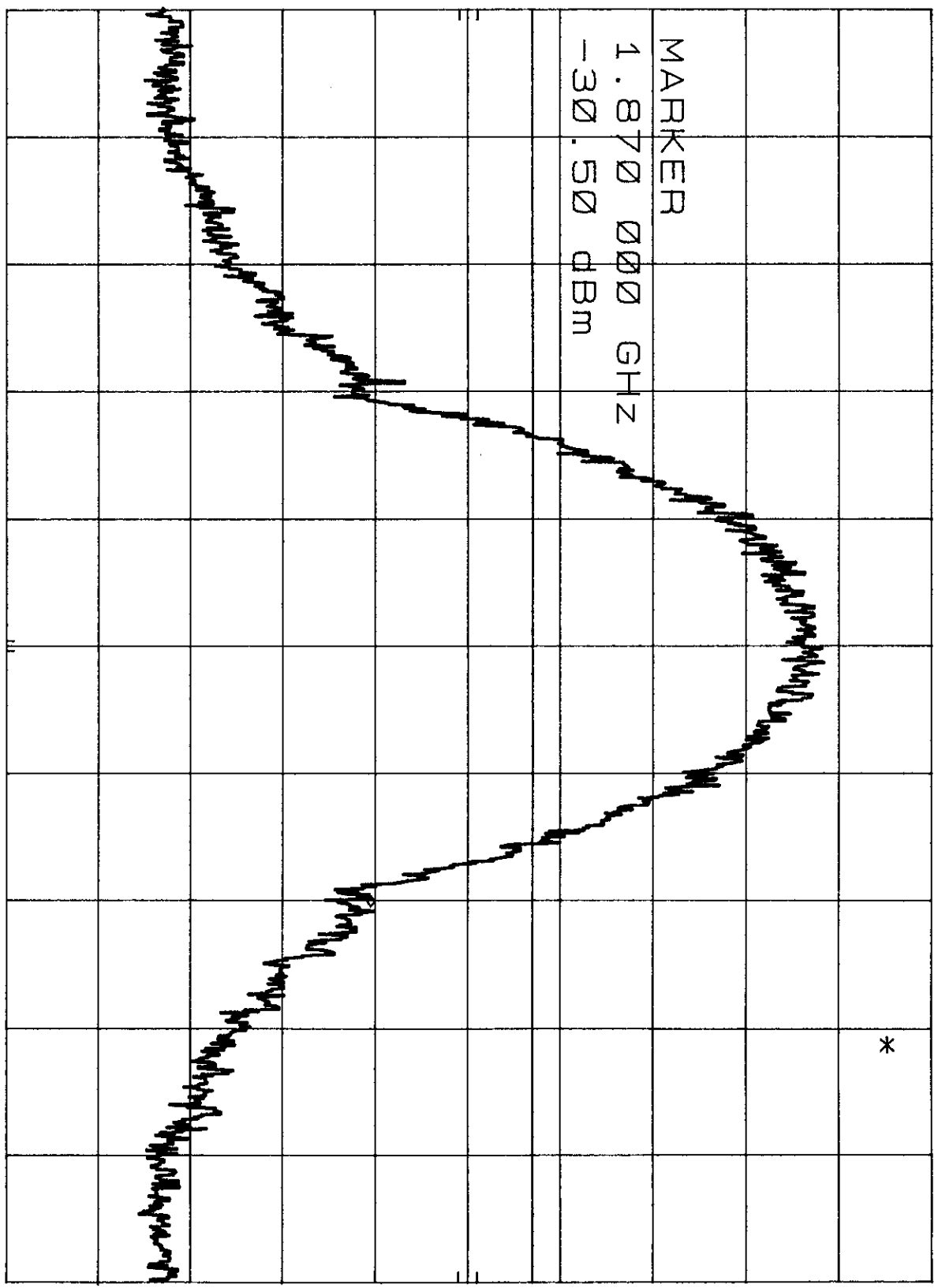
89

#89
RK

WJ BANDEDGES
HP REF 30.0 DBM ATTEN 40 DB MKR 1.870 000 GHZ
-30.50 DBM

10 DB/

DL
-13.0
DBM



CENTER 1.869 80 GHZ
RES BW 3 KHZ
VBM 1 MHZ
SPAN 1.00 MHZ
SWP 300 msec

#89

WJ BANDEDGES
REF 30.0 DBM

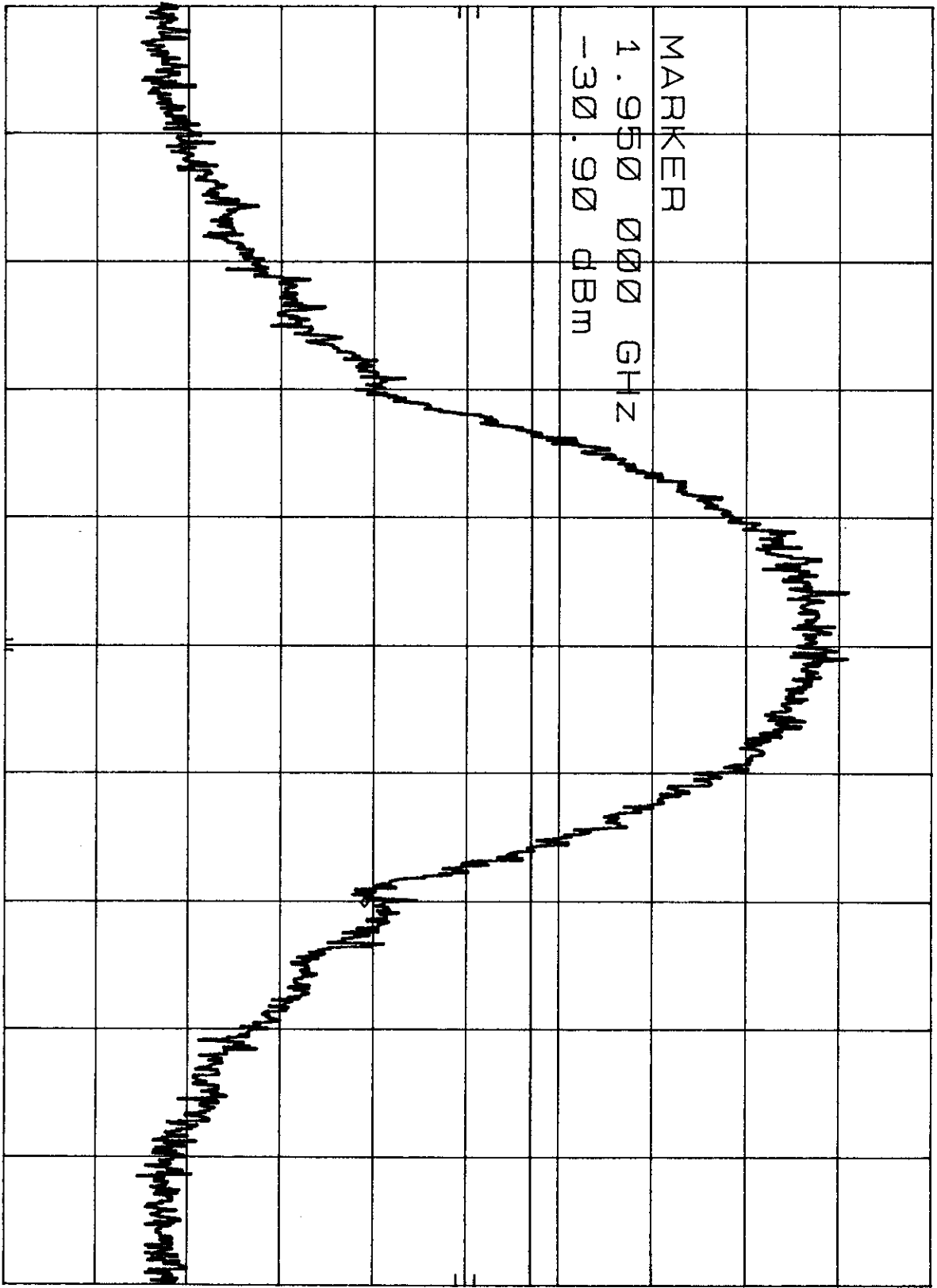
ATTEN 40 DB

MKR 1.950 000 GHZ
-30.90 DBM

10 DB/
hp

DL
-13.0
DBM

MARKER
1.950 000 GHZ
-30.90 DBM



CENTER 1.949 80 GHZ
RES BW 3 KHZ

VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#90

PK

WJ BANDEDGES
HP REF 30.0 DBM

ATTEN 40 DB

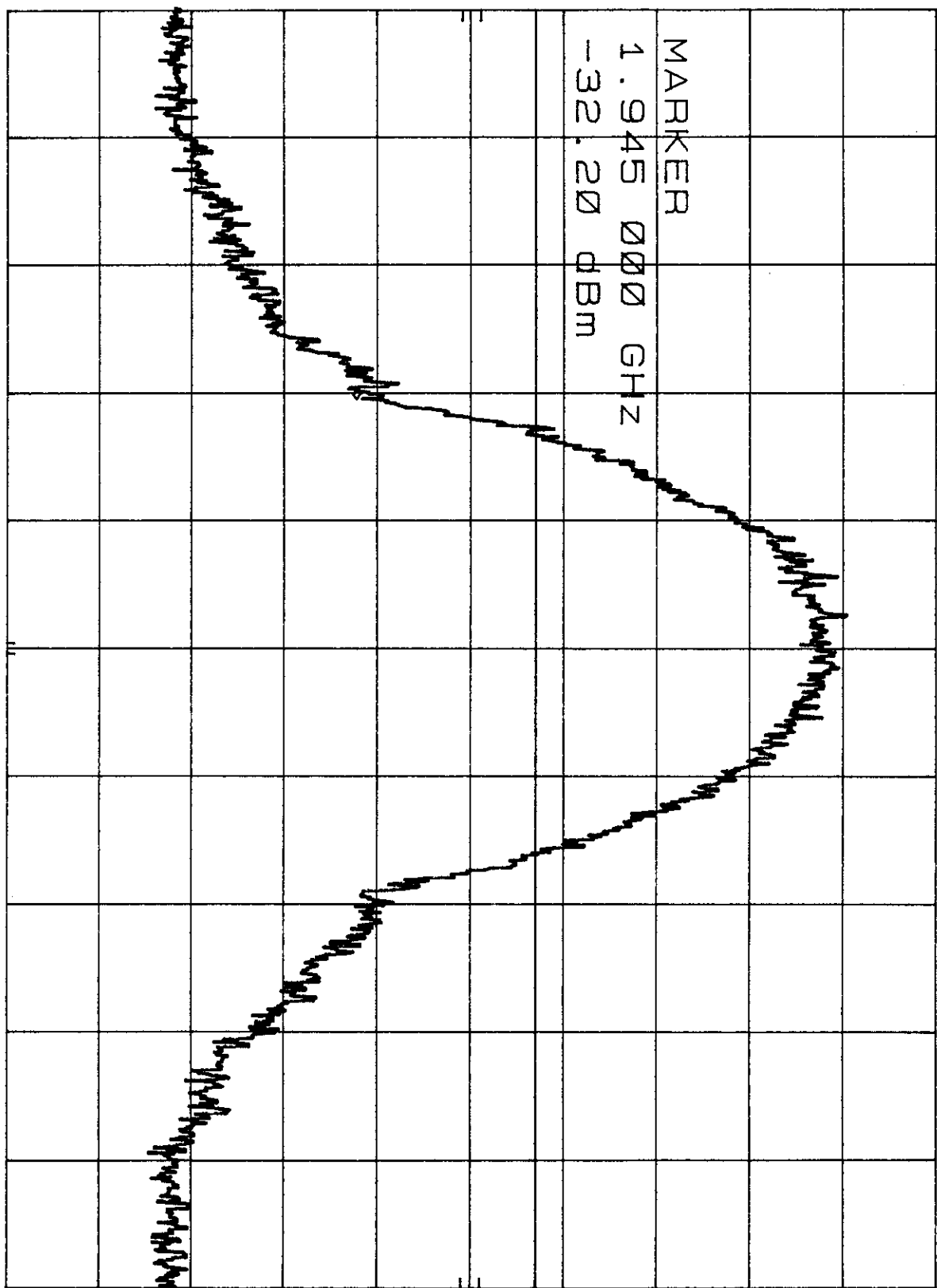
MKR 1.945 000 GHZ
-32.20 DBM

#91
PK

10 DB/

DL
-13.0
DBM

MARKER
1.945 000 GHZ
-32.20 DBM



CENTER 1.945 20 GHZ
RES BW 3 KHZ

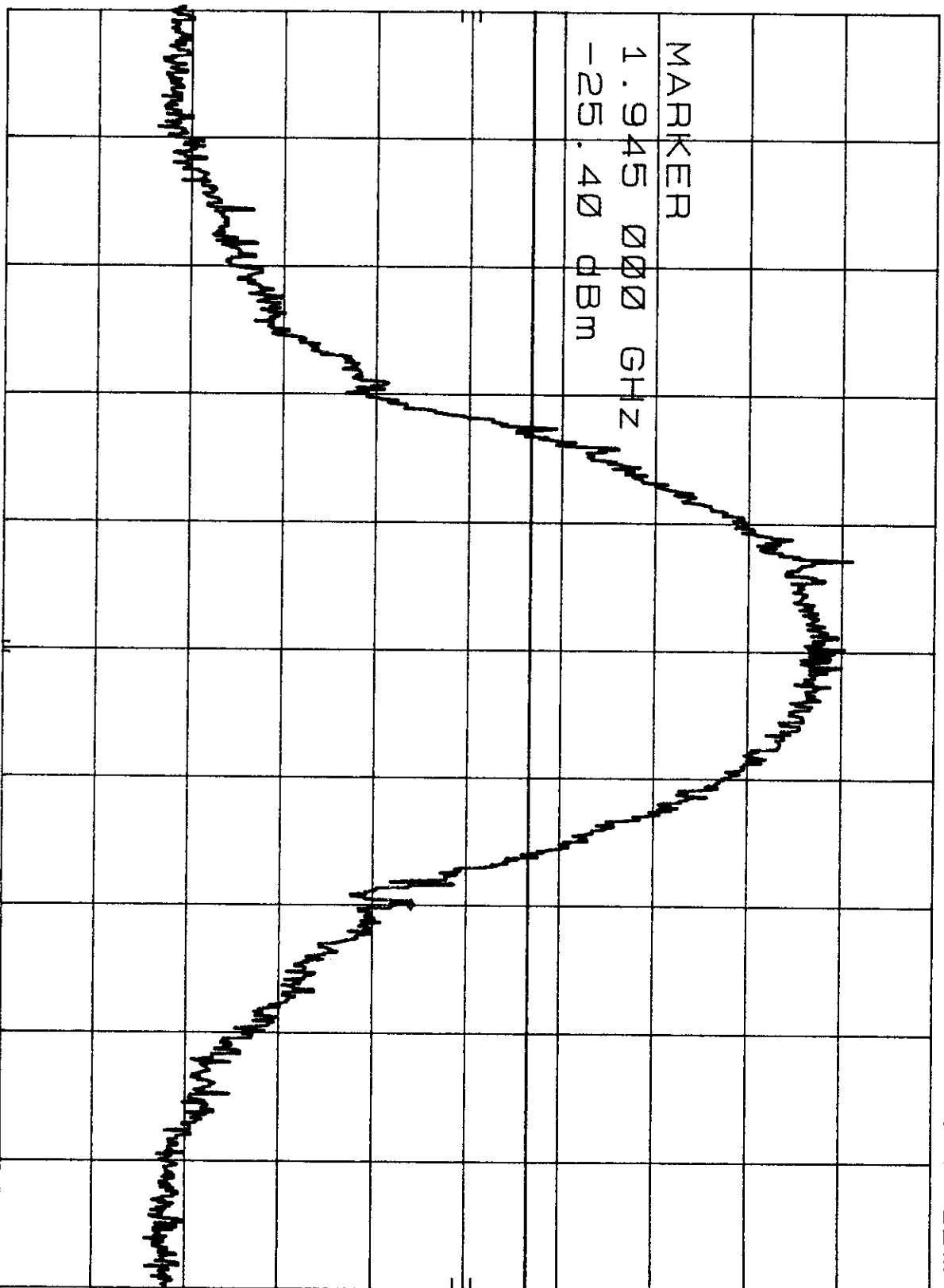
VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#91

WJ BANDEDGES
HP REF 30.0 DBM ATTEN 40 DB
10 DB/
MKR 1.945 000 GHZ
-25.40 DBM

DL
-13.0
dBm



CENTER 1.944 80 GHZ
RES BW 3 KHZ
VBW 1 MHZ
SPAN 1.00 MHZ
SWP 300 msec

#92 PK

#92
PK

WJ BANDEDGES
HP REF 30.0 DBM

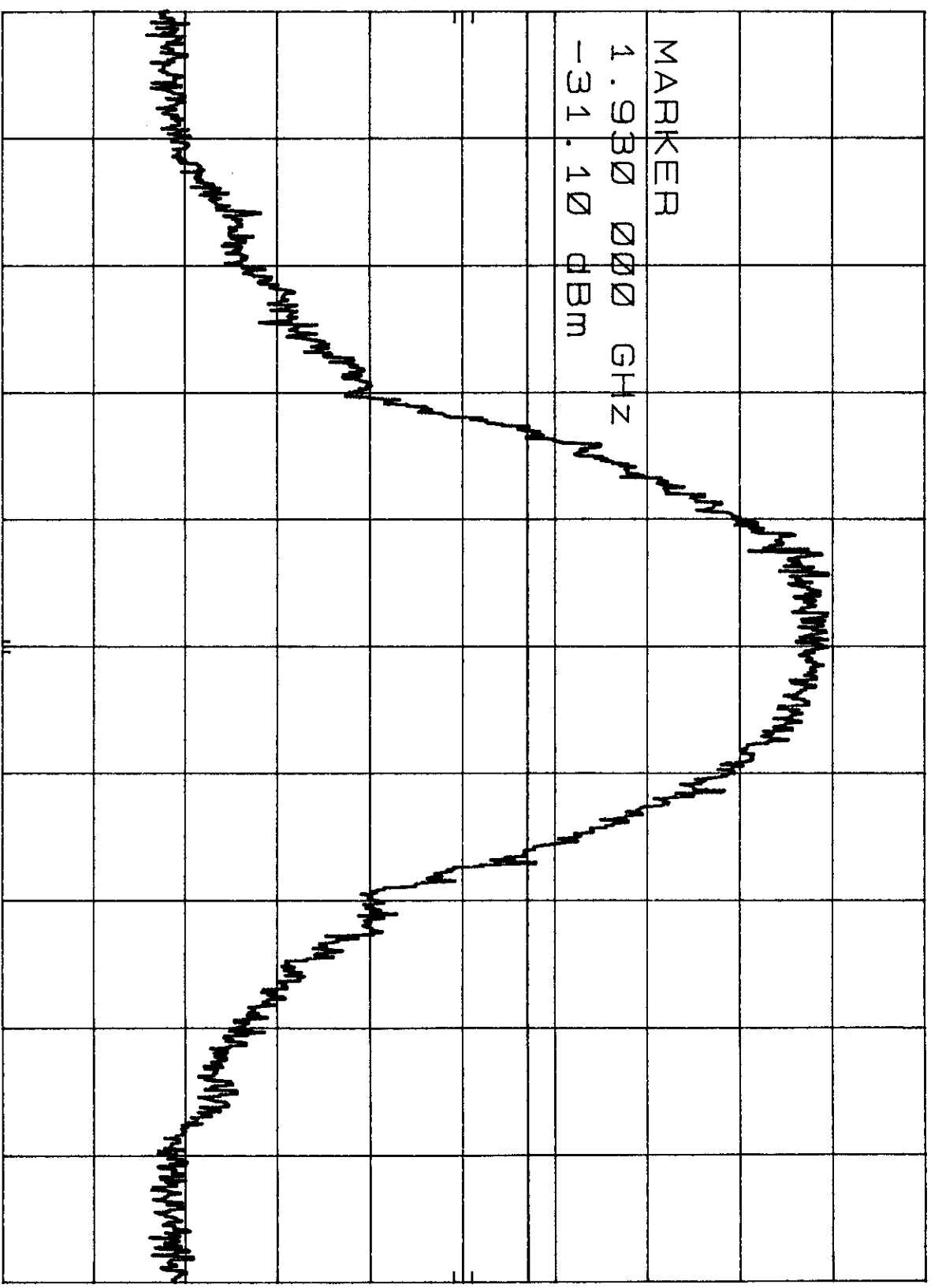
ATTEN 40 DB

MKR 1.930 000 GHZ
-31.10 DBM

10 DB/

DL
-13.0
DBM

MARKER
1.930 000 GHZ
-31.10 DBM



CENTER 1.930 20 GHZ
RES BW 3 KHZ
VBW 1 MHZ
SPAN 1.00 MHZ
SWP 300 msec

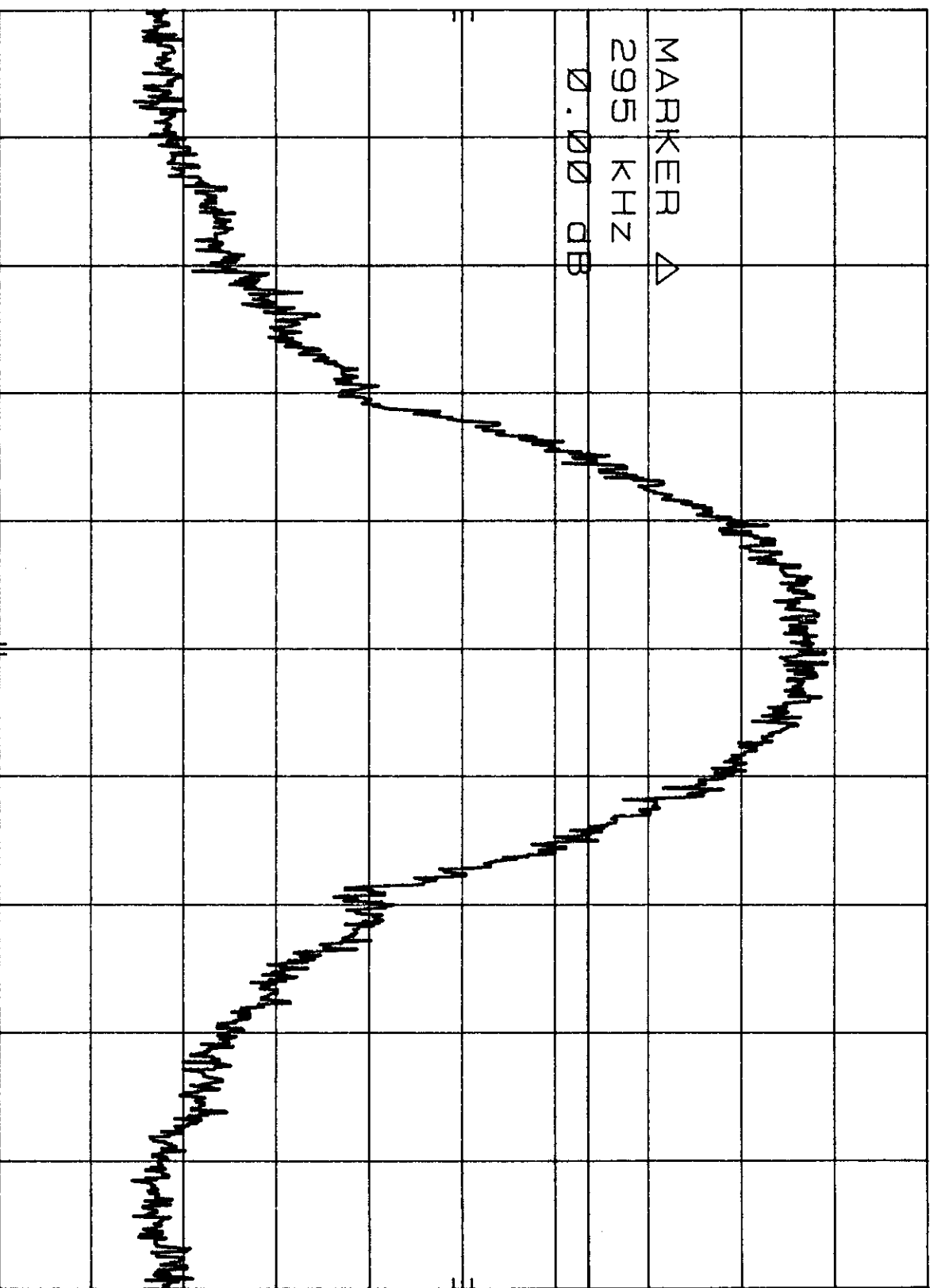
#92

WJ BANDWIDTH
REF 30.0 DBM
ATTEN 40 DB

MKR Δ 295 KHZ
0.00 DB

10 DB/

DL
-6.5
DBM



CENTER 1.930 20 GHZ
RES BW 3 KHZ
VBW 1 MHZ
SPAN 1.00 MHZ
SWP 300 msec

#93

93

#93

PK

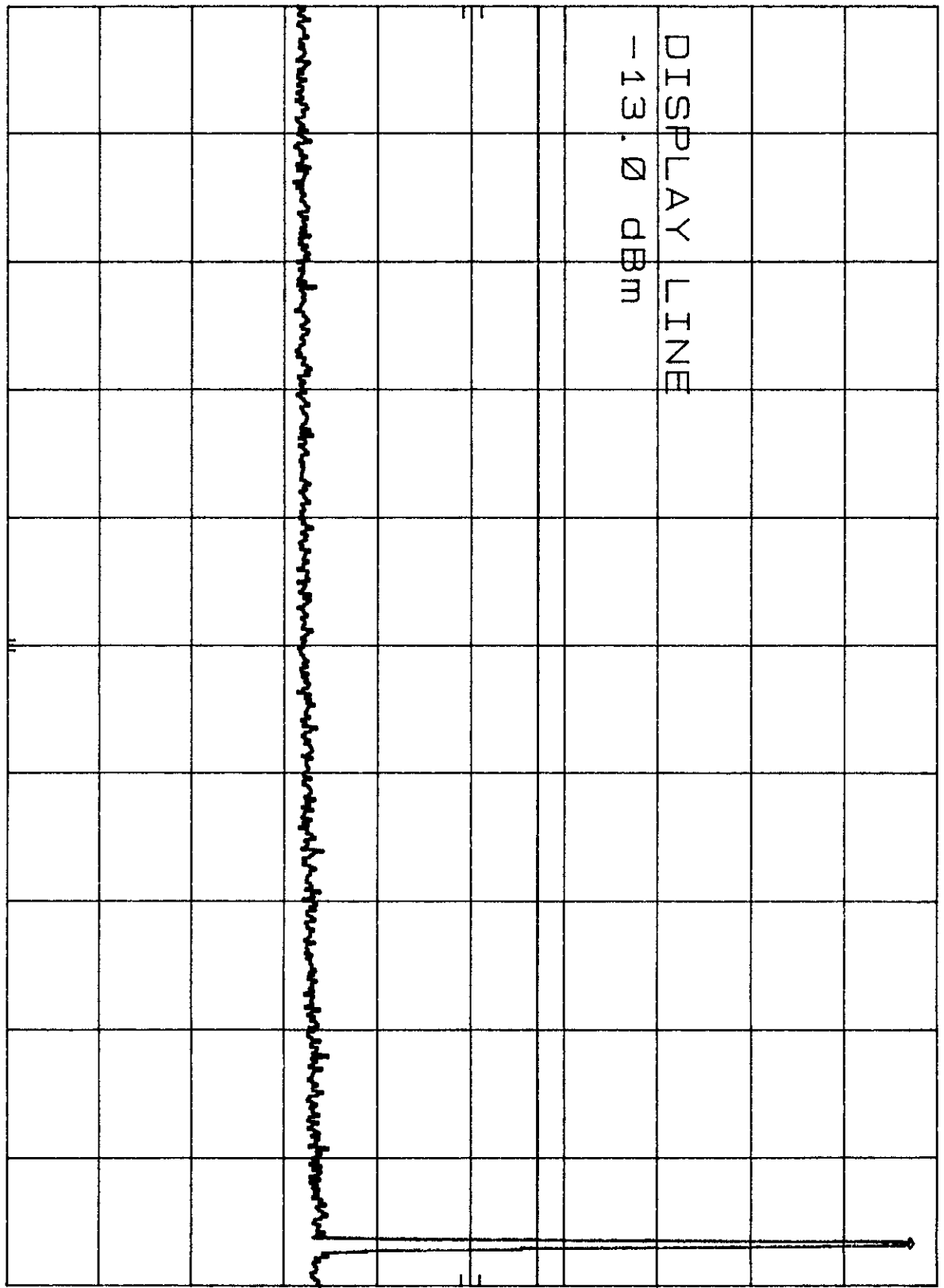
WJ SPURIOUS
REF 30.0 DBM
ATTEN 40 DB

MKR 1.933 GHZ
27.20 DBM

#94
PK

10 DB/

DL
-13.0
dBm



START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SMP 49.3 msec

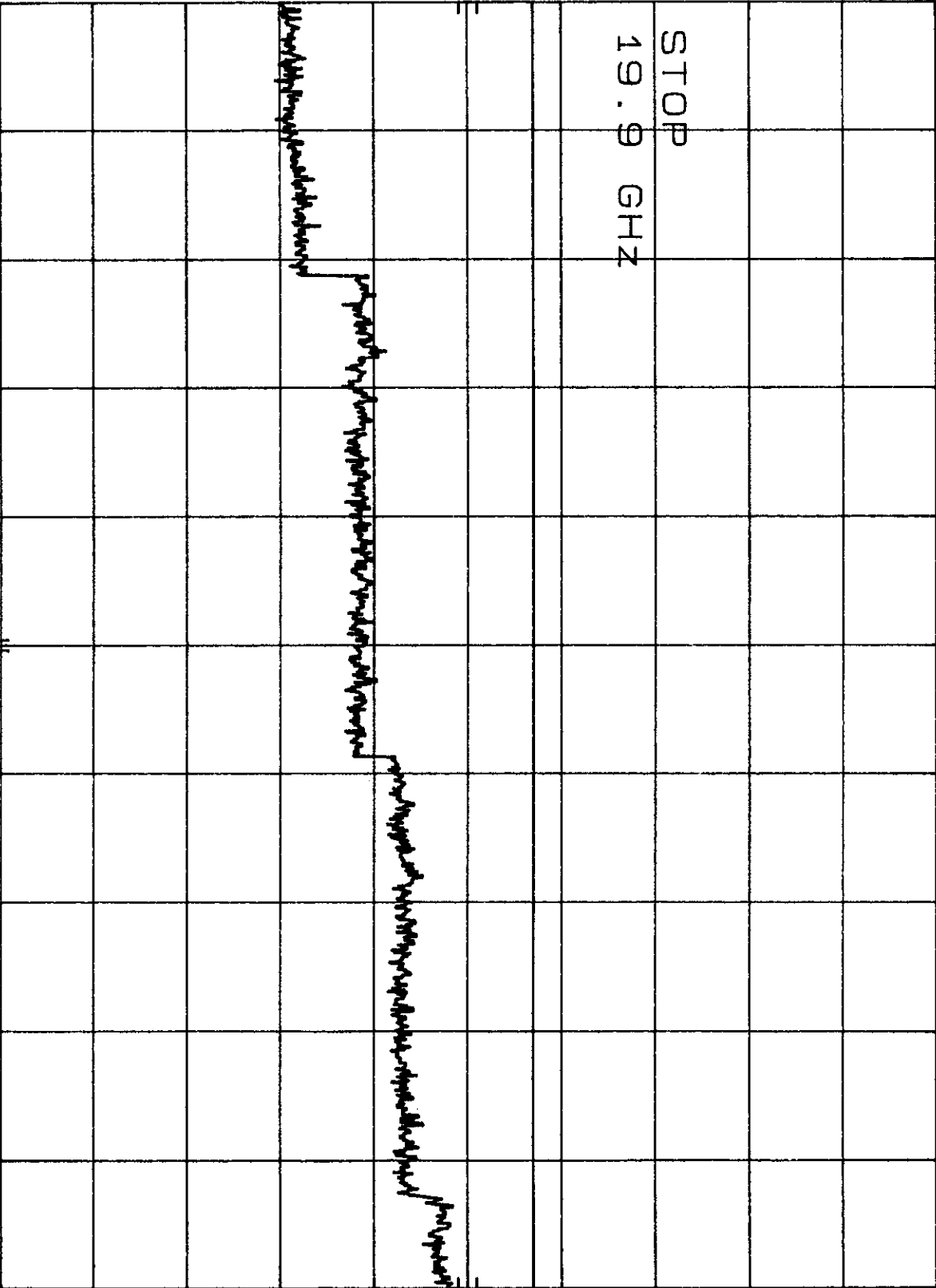
#94

WJ SPURIOUS
HP REF 30.0 DBM ATTEN 40 DB

#94
PK

10 DB/

DL
-13.0
DBM



START 2.0 GHZ
RES BW 1 MHZ
VBW 1 MHZ
STOP 19.9 GHZ
SMP 448 msec

#94

HP

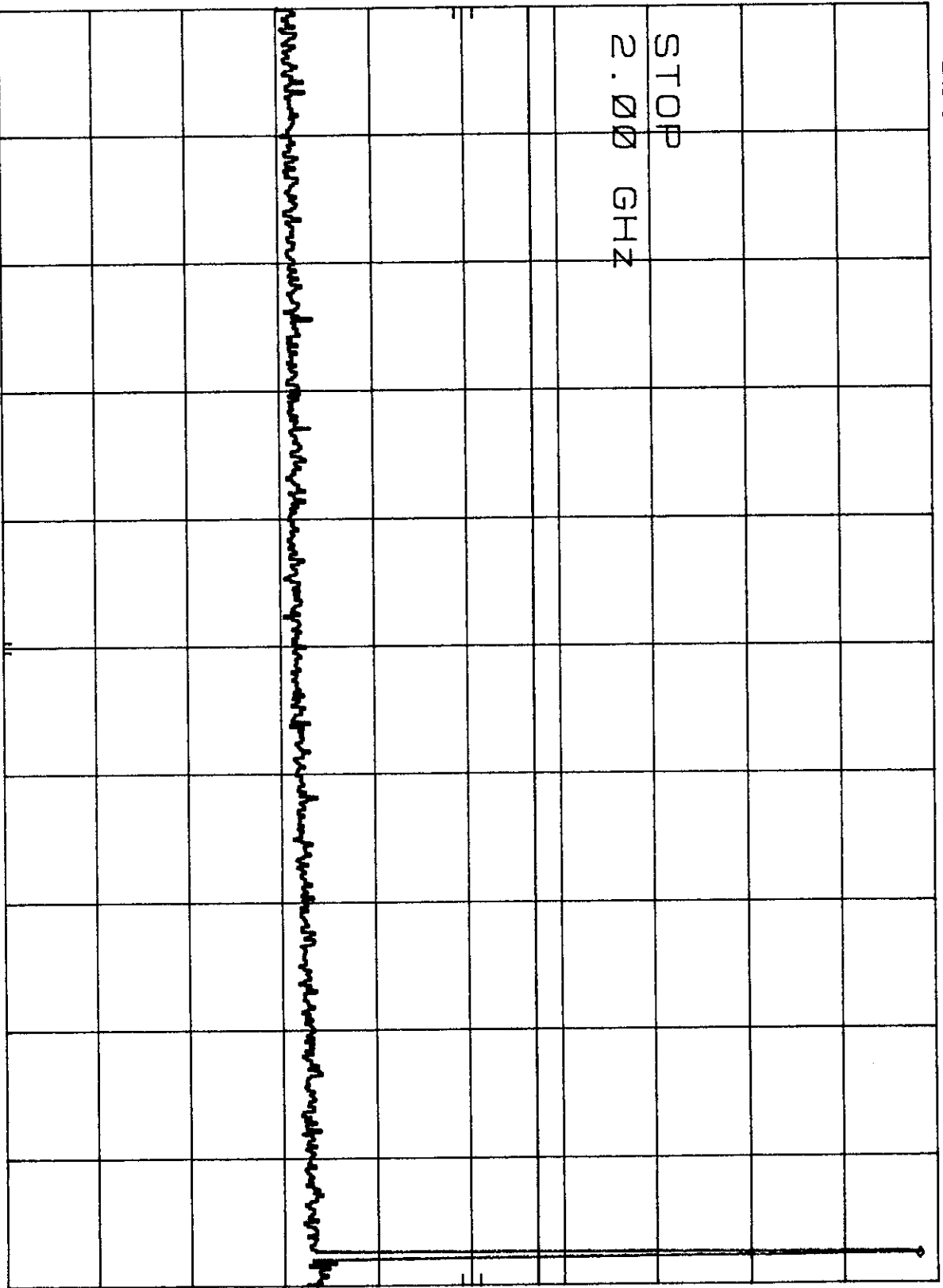
WJ SPURIOUS
REF 30.0 DBM
ATTEN 40 DB

MKR 1.953 GHZ
28.10 DBM

#95
PK

10 DB/

DL
-13.0
dBm



START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SWP 49.3 msec

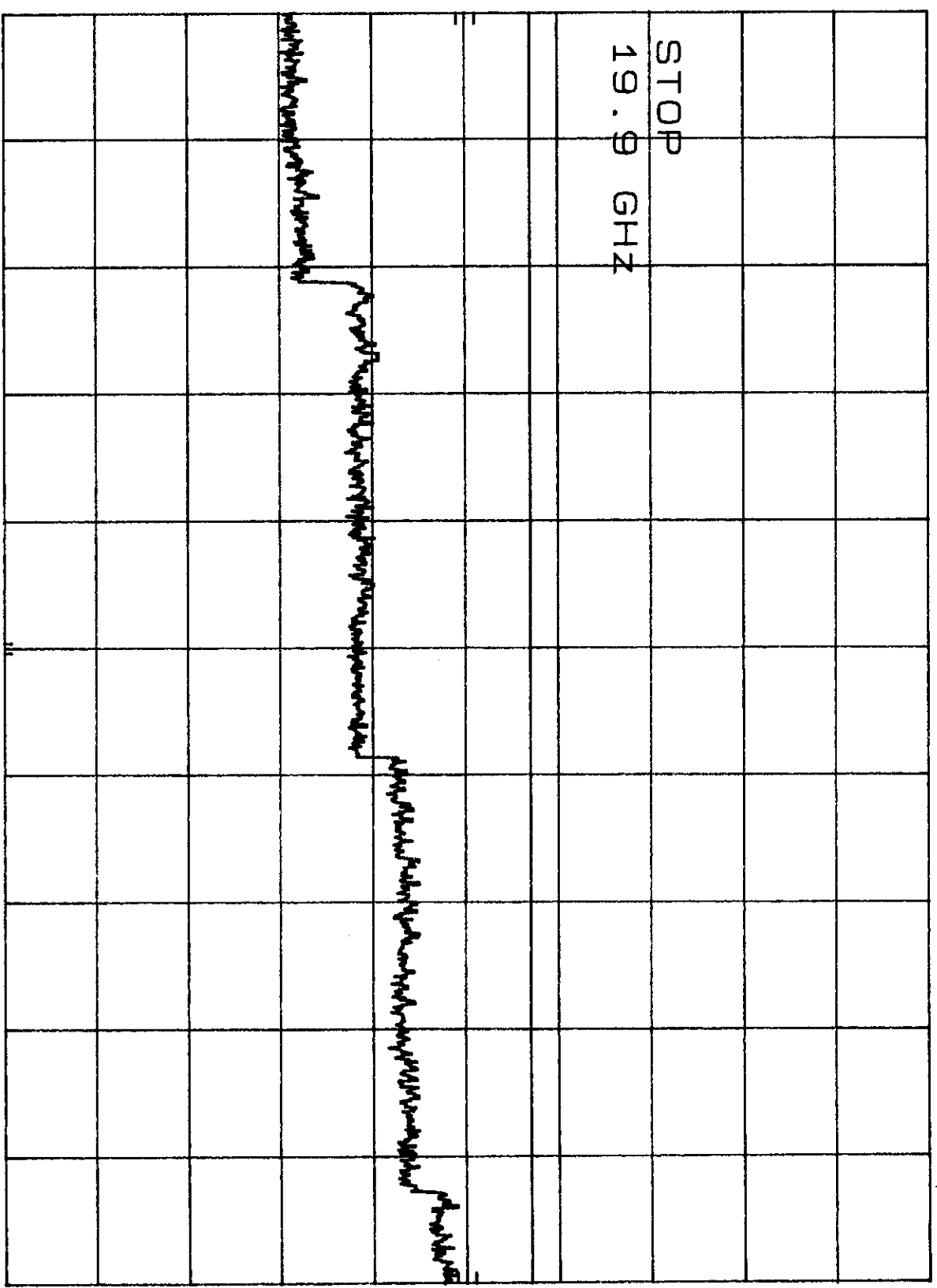
#95

WJ SPURIOUS
REF 30.0 DBM
ATTEN 40 DB

HP

10 DB/

DL
-13.0
DBM



START 2.0 GHZ

RES BW 1 MHZ

VBW 1 MHZ

SWP 448 msec

STOP 19.9 GHZ

#95

771

#95 PK

95

#98 PK

HP

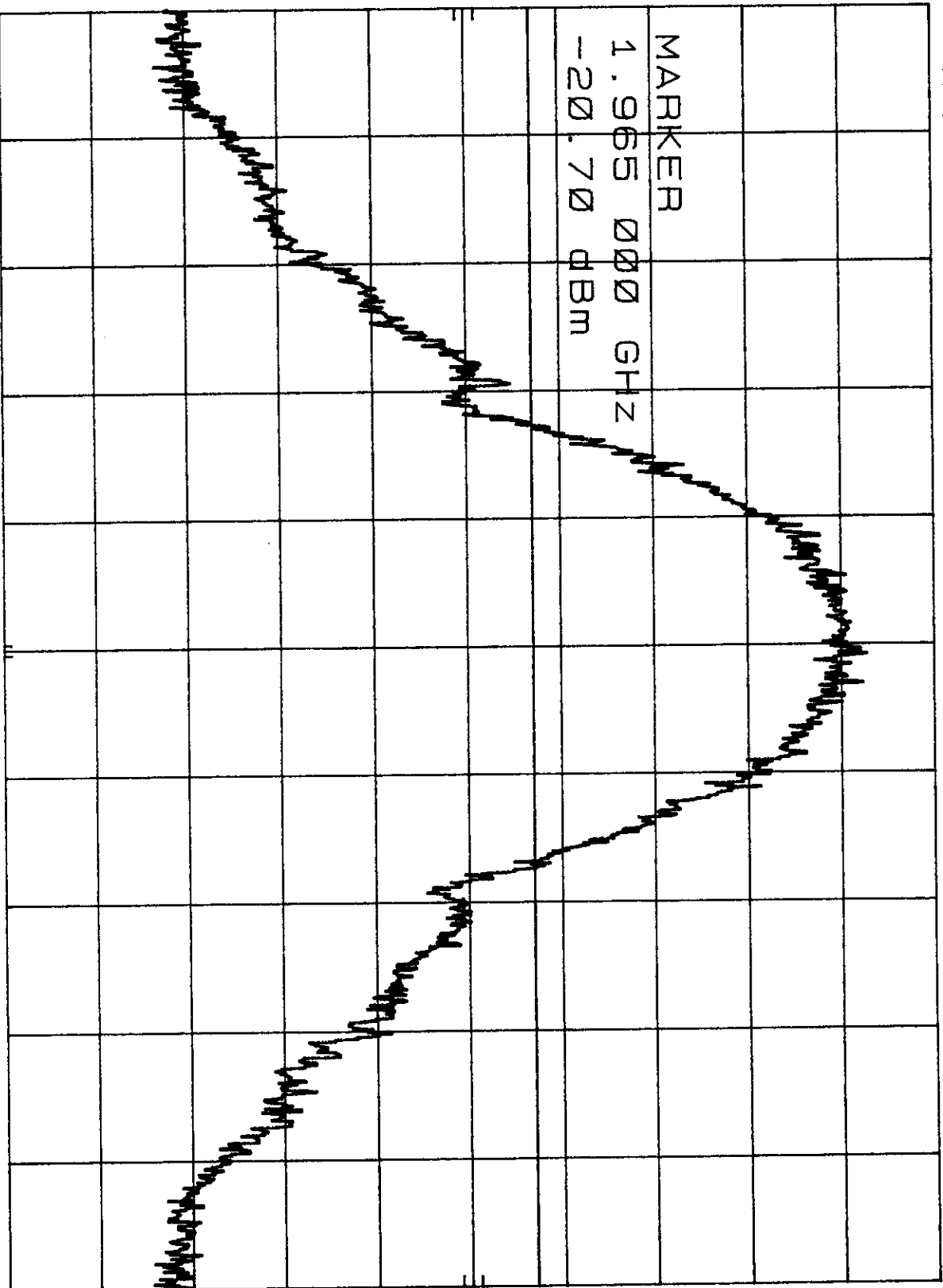
WJ BANDEDGES
REF 30.0 DBM

ATTEN 40 DB

MKR 1.965 000 GHZ
-20.70 DBM

10 DB/

DL
-13.0
DBM



MARKER

1.965 000 GHZ
-20.70 DBM

CENTER 1.964 80 GHZ
RES BW 3 KHZ

VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#98

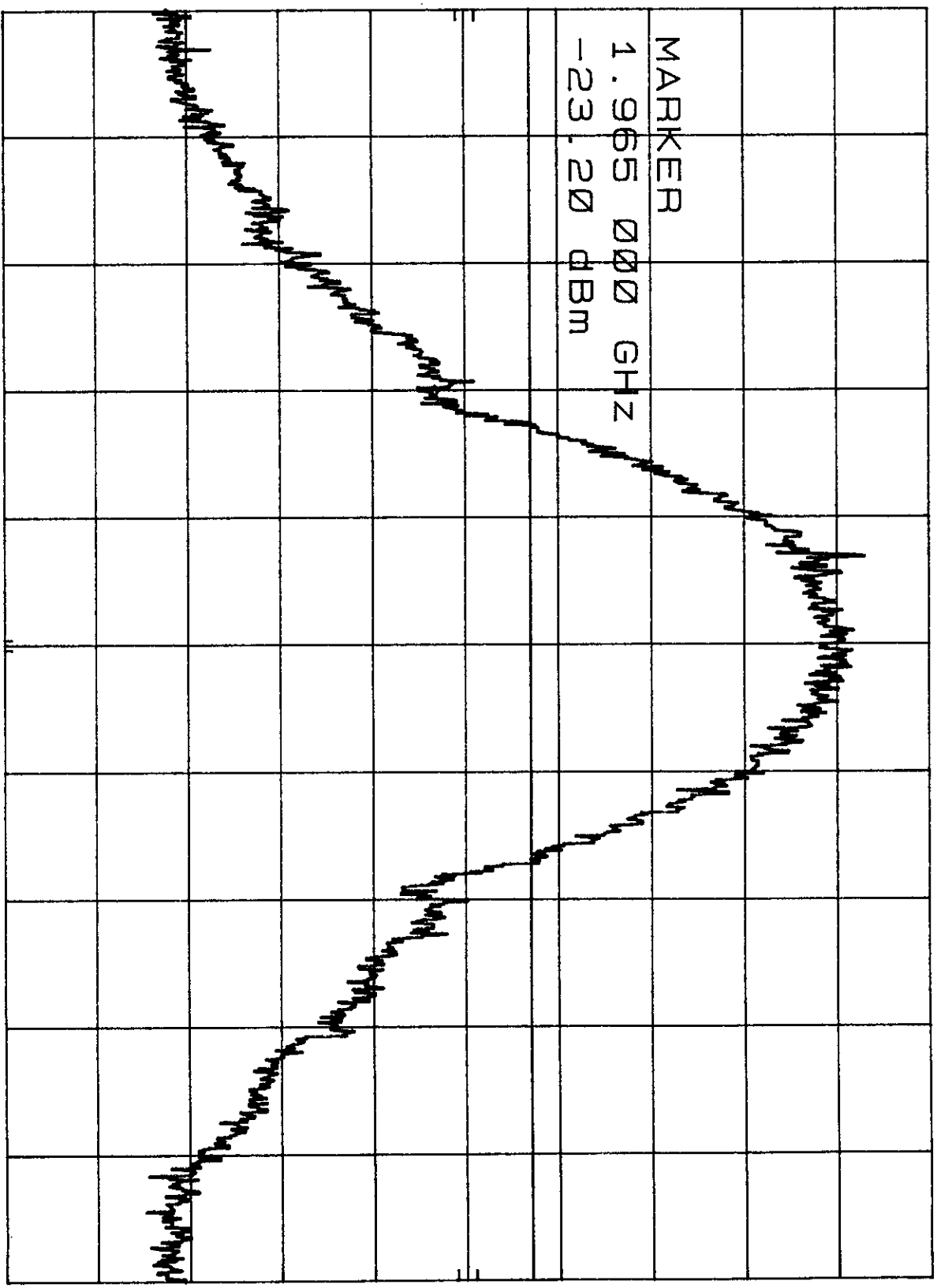
WJ BANDEDGES
REF 30.0 DBm

ATTEN 40 DB

MKR 1.965 000 GHZ
-23.20 DBm

HP
10 DB/

DL
-13.0
DBm



CENTER 1.965 20 GHZ
RES BW 3 KHZ

VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#99

#77

WJ BANDEDGES
HP REF 30.0 DBM

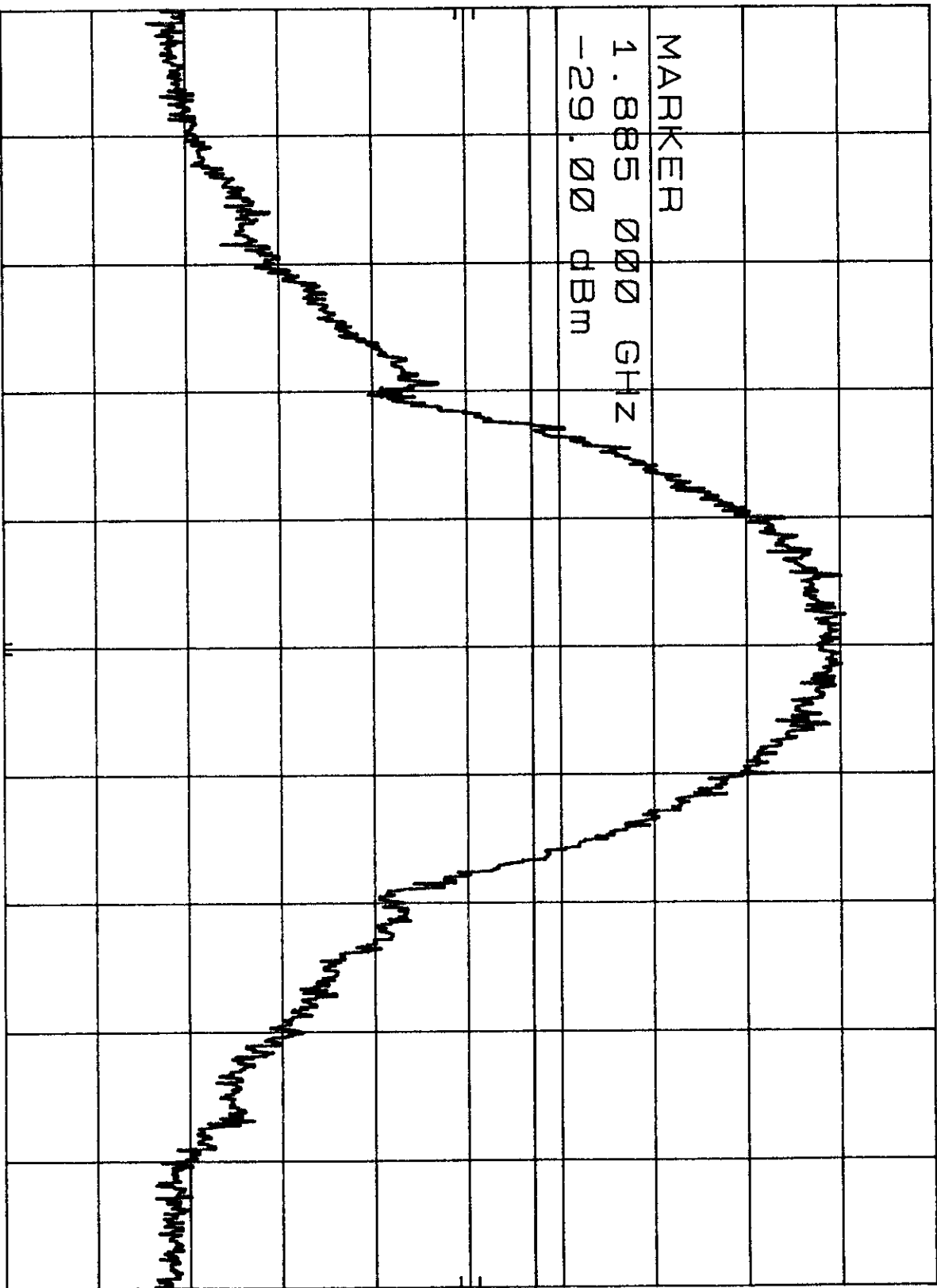
ATTEN 40 DB

MKR 1.885 000 GHZ
-29.00 DBM

#102 PK

10 DB/

DL
-13.0
dBm



CENTER 1.885 20 GHZ
RES BW 3 KHZ

VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#102

hp

10 DB/

WJ BANDEDGES
REF 30.0 DBM

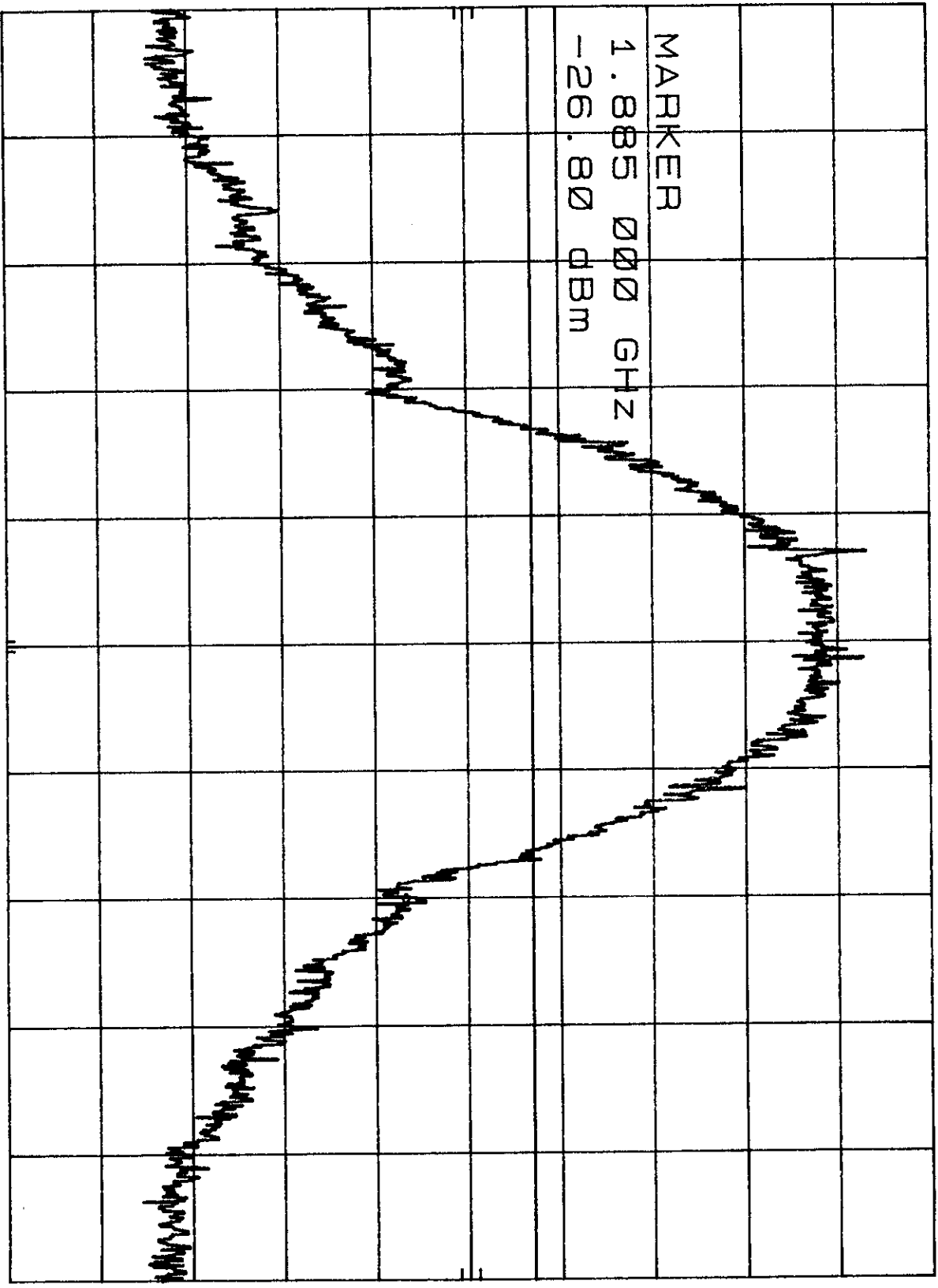
ATTEN 40 DB

MKR 1.885 000 GHZ
-26.80 DBM

#103
PK

DL
-13.0
dBm

MARKER
1.885 000 GHZ
-26.80 DBM



CENTER 1.884 80 GHZ
RES BW 3 KHZ

VBW 1 MHZ

SPAN 1.00 MHZ
SWP 300 msec

#103

WJ BANDEDGES
REF 30.0 dBm

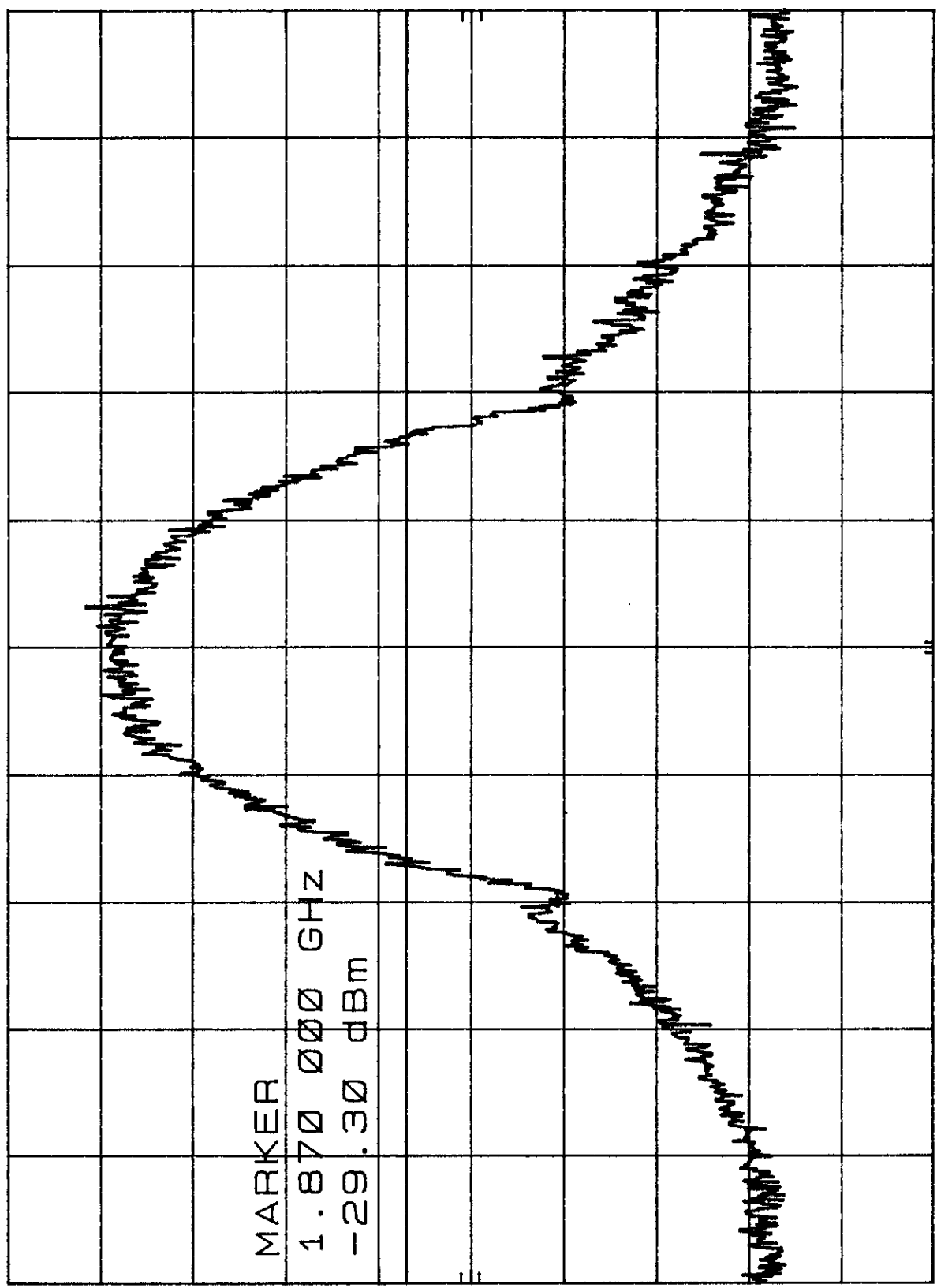
ATTEN 40 dB

MKR 1.870 000 GHz
-29.30 dBm

hp

10 dB/

DL
-13.0
dBm



CENTER 1.870 20 GHz
RES BW 3 KHZ
SPAN 1.00 MHz
SWP 300 msec
VBW 1 MHz

#104
#100
#100

PK #1106

186

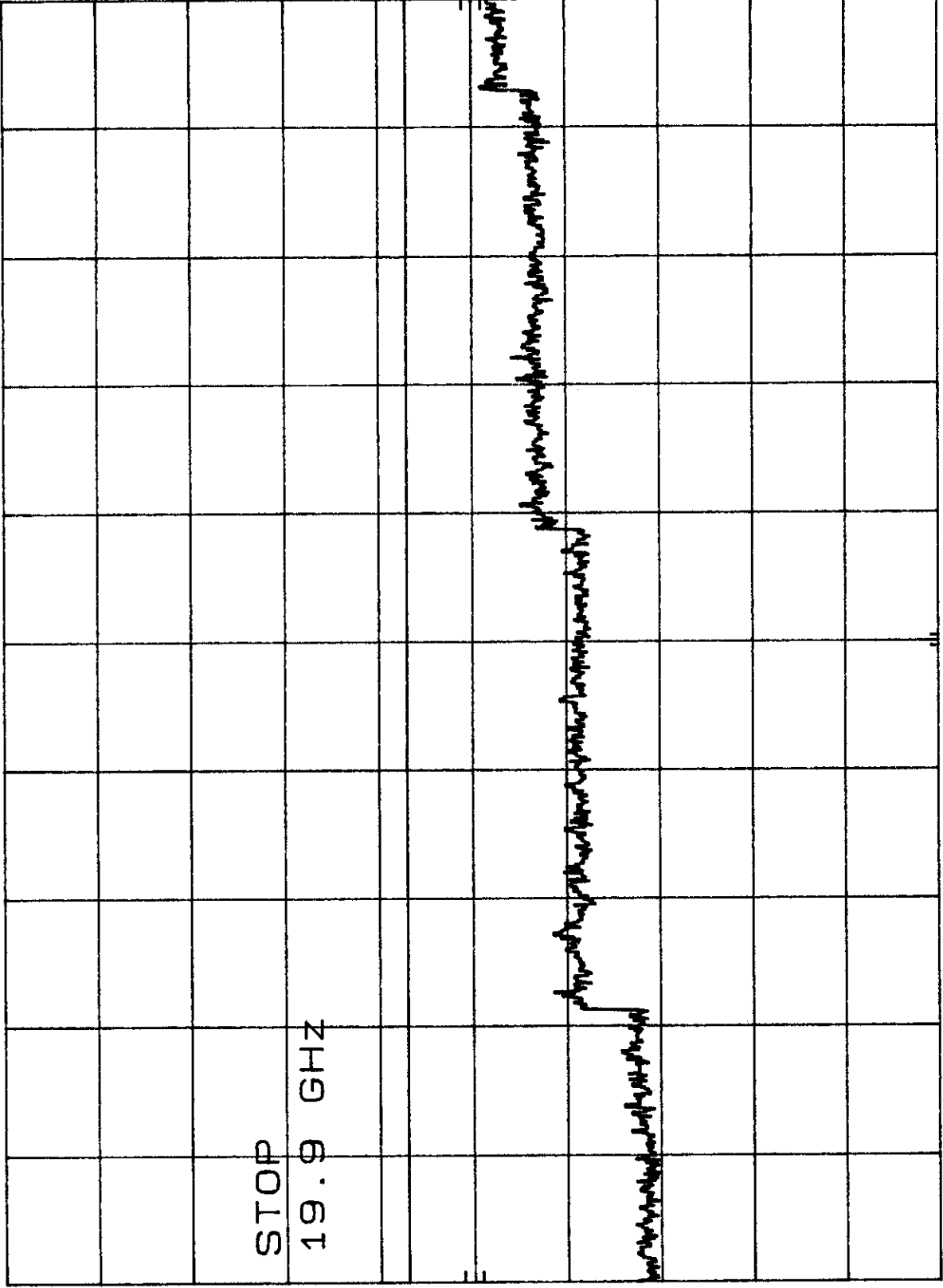
WJ SPURIOUS
REF 30.0 dBm
ATTEN 40 dB

hp

10 dB/

STOP
19.9 GHz

DL
-13.0
dBm



START 2.0 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 19.9 GHz
SWP 448 msec

#1106

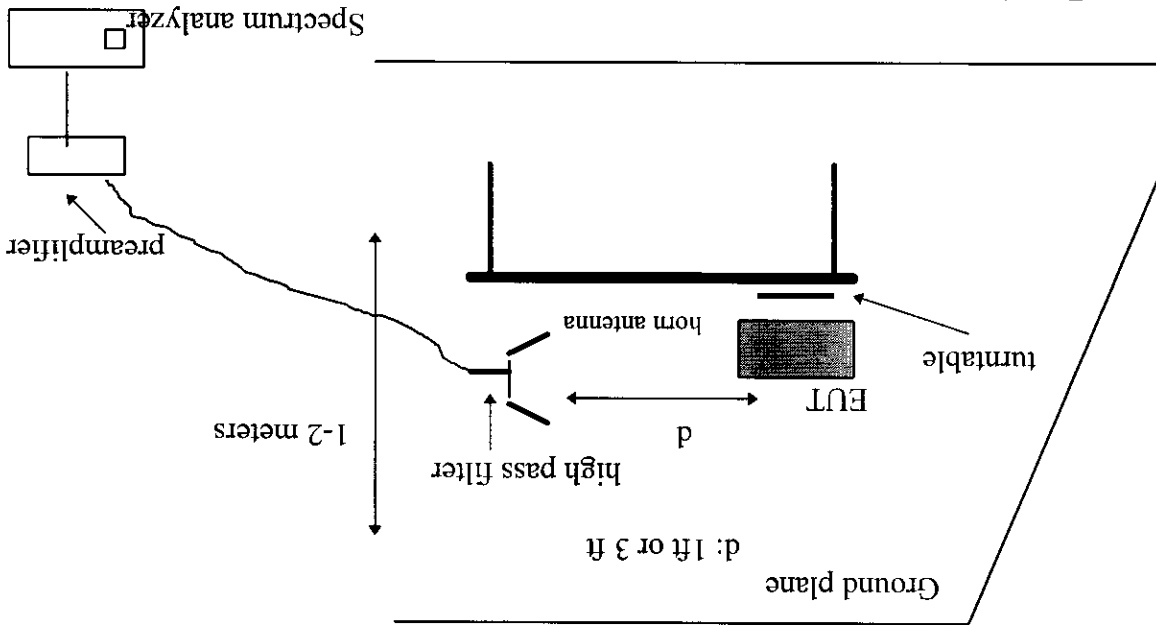
Section 2.993 Measurement Required: Field Strength of Spurious and

Harmonic Radiation

Measurement Equipment Used:

- HP 8563E Spectrum Analyzer
- HP 8449 B Preamplifier, 1-26 GHz
- ARA DRG-118/A Double Ridged Horn antenna, 1 - 18 GHz
- QIM "The Workhorse" low loss cable, 9 ft (loss: 0.85 dB/ft @ 26 GHz)

Test Set-Up



Minimum Requirement

The magnitude of each spurious and harmonic emission detected as being radiated from the EUT must be at a level more than $43 + 10 \log(\text{mean output power, watts})$ dB below the mean power output ($= -13$ dBm).

Resulant radiated field at 3 m from -13 dBm source feeding isotropic antenna: 82.4 dBuV/m

Test Method

The antenna output port of the EUT was terminated with a 50 ohm shielded termination. With the transmitter operating at full power, the EUT was rotated 360° and the search antenna was raised and lowered in both polarities, all in an attempt to maximize the levels of the received emission for each harmonic and spurious emission up to 10 fo.

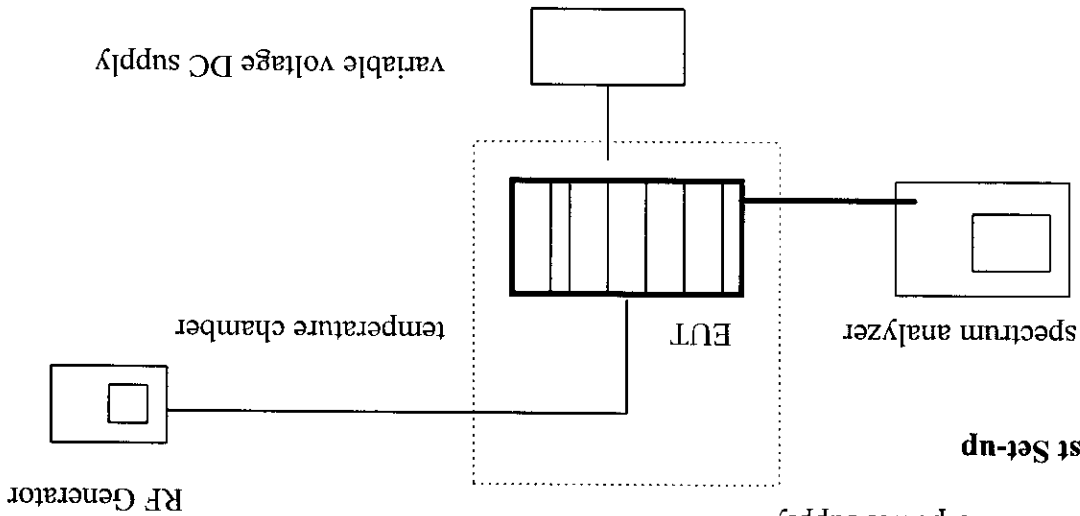
Test Results

Corrected field strength readings extrapolated to 3m: more than 20 dB below limit.

Measurement Equipment Used:

HP 8563E Spectrum Analyzer
 QIM "The Workhorse" low loss cable, 9 ft (loss: 0.85 dB/ft @ 26 GHz)
 Variable DC power supply

Test Set-up



Section 24.235 : States Frequency stability shall be sufficient to ensure that fundamental emission stays within the authorized frequency block.

Test Method

Temperature: Vary the ambient temperature from -30 to +50°C, in 10 degree increments, allowing the EUT to stabilize at each temperature.
 Primary Supply Voltage: Vary the supply voltage from 85% to 115% of the nominal operating voltage with EUT at 20°C.

Test Procedure :

At each frequency the MKR function of the analyzer was activated and a marker was placed where the emission mask intersected the bandedge frequency of the adjacent frequency block. During frequency stability test, if the operating frequency drifted towards band edge, the marker would appear to "crawl" up the emission mask. Amplitude level at the marker (bandedge indicator) must remain below the -13dBm limit line.

For both temperature Vs frequency and voltage Vs frequency stability tests, no discernible drift of the emission mask was detected.

Direct connect analyzer to signal generator 0.00013 Voltage from 102V to 138V							
Temp	Block A/CW			Block B/CW			Block C/CW
	FWD/1930	REV/1850	FWD/1950	REV/1870	FWD/1975	REV/1895	Duration
-30	.00013	.00013	.00013	.00013	.00013	.00013	1hour
-20	.00013	.00013	.00013	.00013	.00013	.00013	20 min
-10	.00013	.00013	.00013	.00013	.00013	.00013	20 min
0	.00013	.00013	.00013	.00013	.00013	.00013	10 min
10	.00013	.00013	.00013	.00013	.00013	.00013	10 min
20	.00013	.00013	.00013	.00013	.00013	.00013	10 min
30	.00013	.00013	.00013	.00013	.00013	.00013	10 min
40	.00013	.00013	.00013	.00013	.00013	.00013	20 min
50	.00013	.00013	.00013	.00013	.00013	.00013	30 min
Voltage							
115%	.00013	.00013	.00013	.00013	.00013	.00013	30 min
85%	.00013	.00013	.00013	.00013	.00013	.00013	30 min

Tests were performed at :

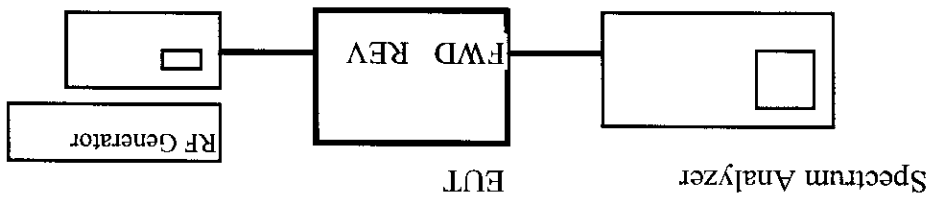
Test Results

Section 24.232: RF Power Output

Measurement Equipment Used:

HP 8563E Spectrum Analyzer
 QIM "The Workhorse" low loss cable, 9 ft (loss: 0.85 dB/ft @ 26 GHz)

Test Setup:



Test Method

RF output power was measured with Spectrum Analyzer (Set to 3MHZ RES BW)

For CDMA

Power In : -45dBm

Power Out: 23 dBm, for both FWD and REV channels.

For TDMA and GSM

Power In: -38dBm

Power Out: 28dBm, for both FWD and REV channels.

Section 1.1307 Routine Environmental Evaluation

The R1910-1 repeater total power output is much less than 2000W ERP and therefore routine evaluation is NOT required for RF exposure to personnel.