

TX 8, 2x 12
Data

PEAK POWER OUTPUT: 260mW
(LOW) TRANSMITTER 590.025 MHz - TXB RX12
HIGH POWER SIN 103

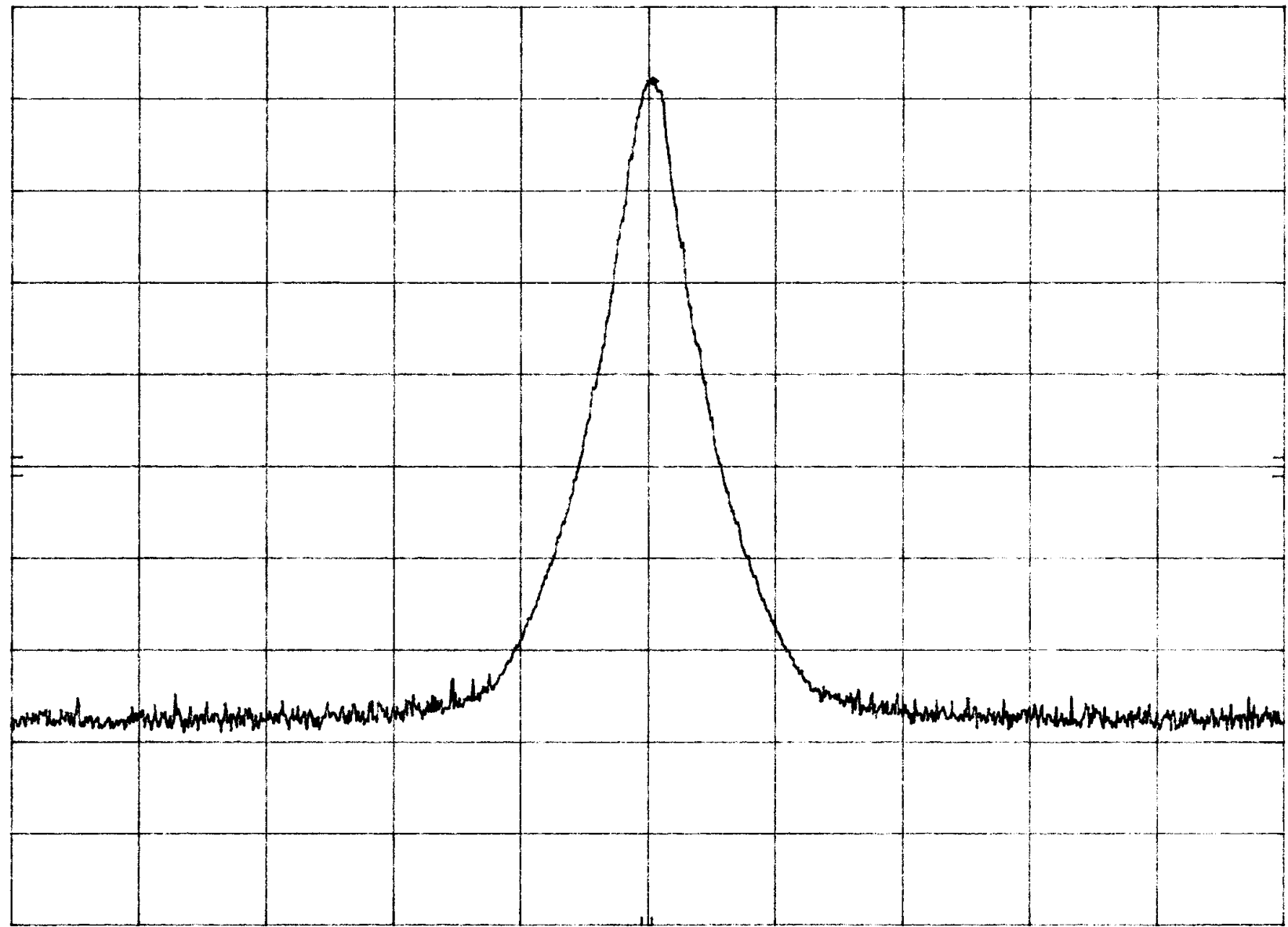
FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 590.040 MHz
21.90 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 590.02 MHz SPAN 5.00 MHz
RES BW 100 kHz (i) VBW 300 kHz SWP 20.0 msec

72

PEAK POWER OUTPUT: 310 mW

(MID) TRANSMIT 605 MHz Tx 8 Rx 12

HIGH POWER SIN 103

FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 605.015 MHz

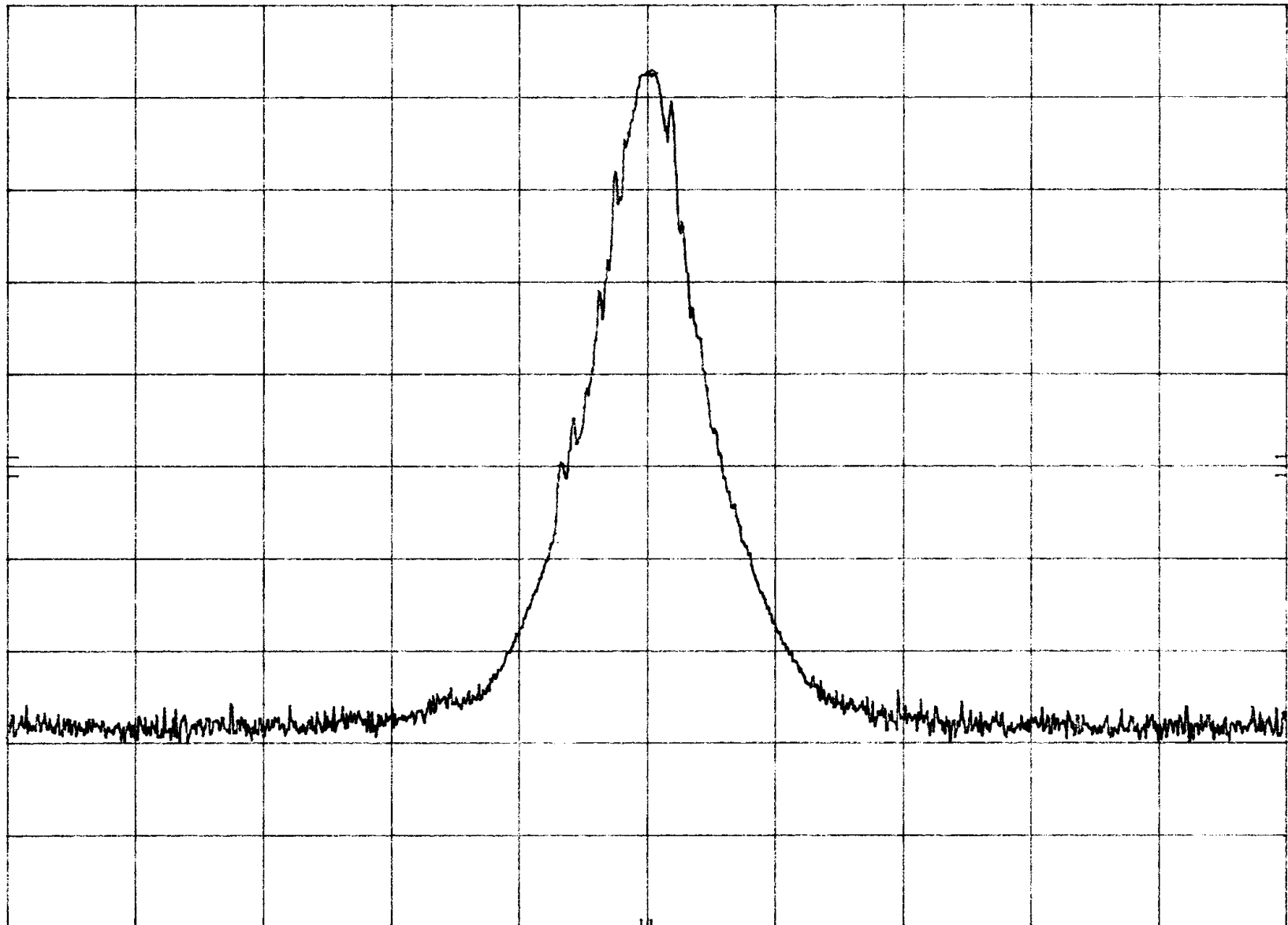
22.60 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

CORR'D



CENTER 605.00 MHz

RES BW 100 kHz (i) VBW 300 kHz

SPAN 5.00 MHz

SWP 20.0 msec 13

PEAK POWER OUTPUT: 270mW
(HIGH) TRANSMIT 620 MHz TR8 RX12

FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

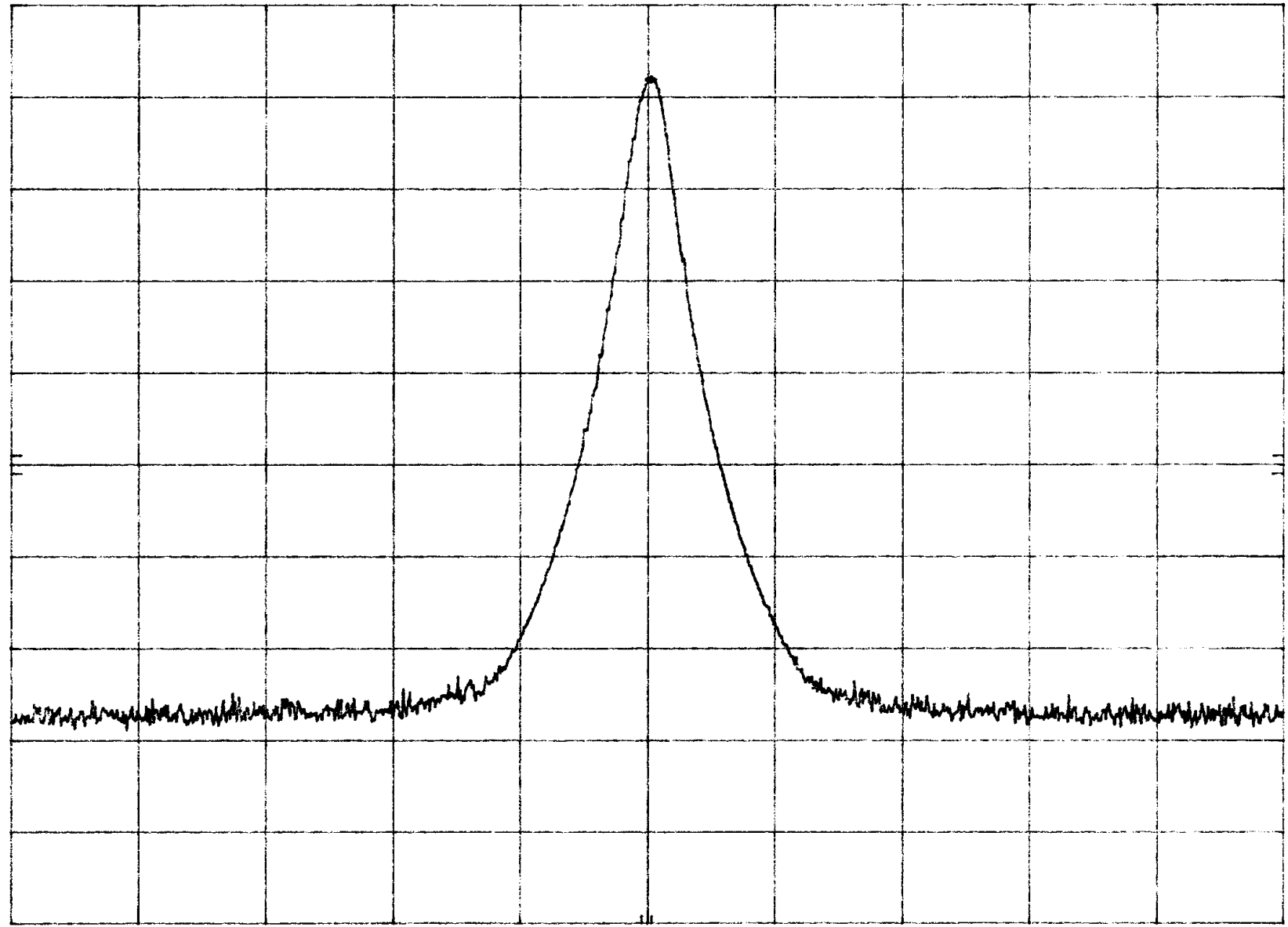
HIGH POWER SIN103

MKR 620.010 MHz
21.90 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK



CENTER 620.00 MHz SPAN 5.00 MHz
RES BW 100 kHz (i) VBW 300 kHz SWP 20.0 msec 74

PEAK POWER OUTPUT: 100 mW
(LOW) TRANSMIT 590.025 MHz Tx9 Rx12
LOW POWER SIN103

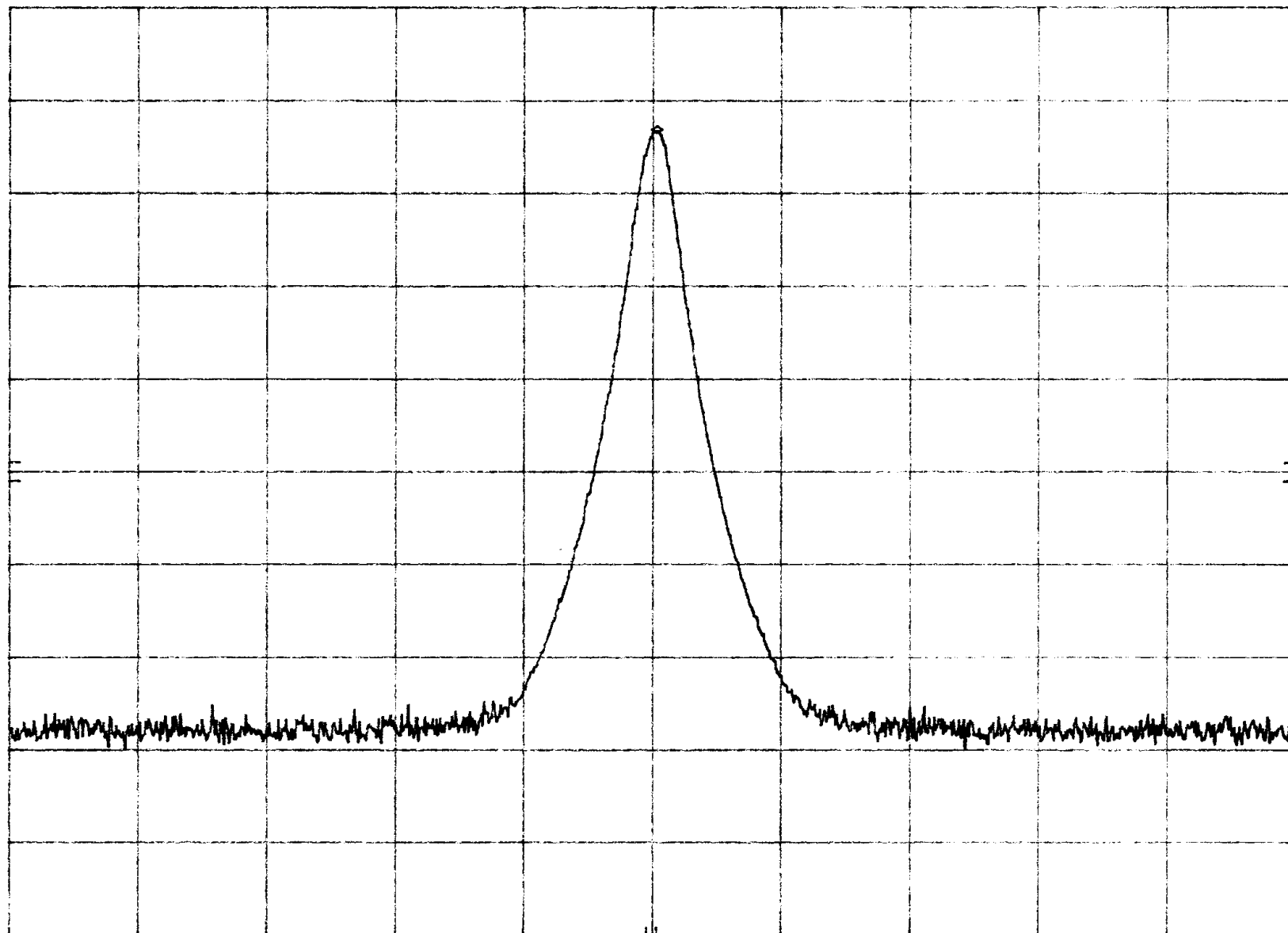
FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 590.040 MHz
16.90 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 590.02 MHz
RES BW 100 kHz (i) VBW 300 kHz

SPAN 5.00 MHz
SWP 20.0 msec

75

PEAK POWER OUTPUT: 130mW
(GND) TRANSMIT 605MHz Tx9 Rx12
LOW POWER 3W 100

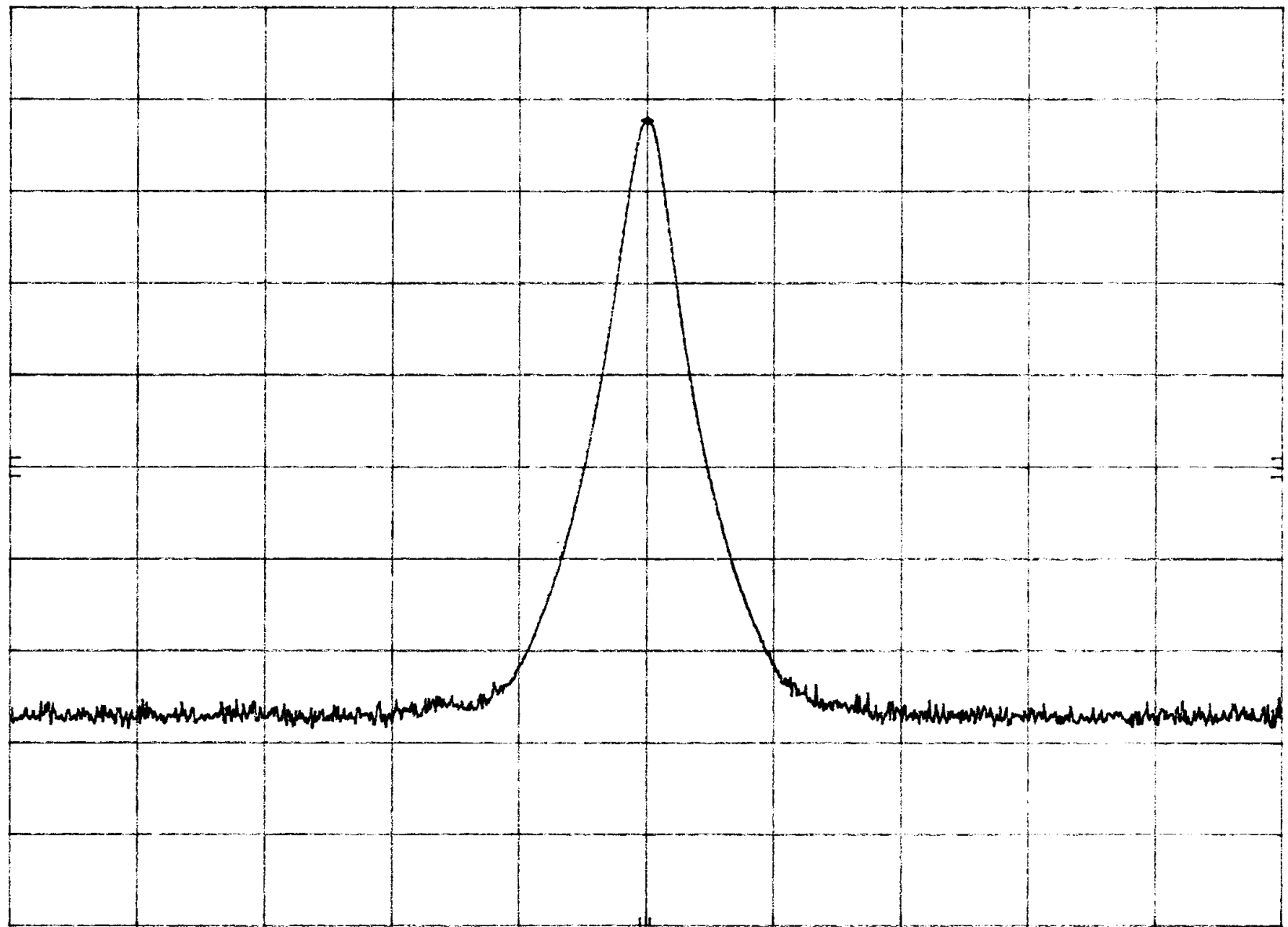
FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 605.000 MHz
17.70 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 605.00 MHz
RES BW 100 KHz (1) VBW 300 KHz

SPAN 5.00 MHz
SWP 20.0 msec 76

Peak Power Output: 110.mW
(HIGH) TRANSMIT 620 MHz Tx 8 Rx 12
Low Power S/N 103

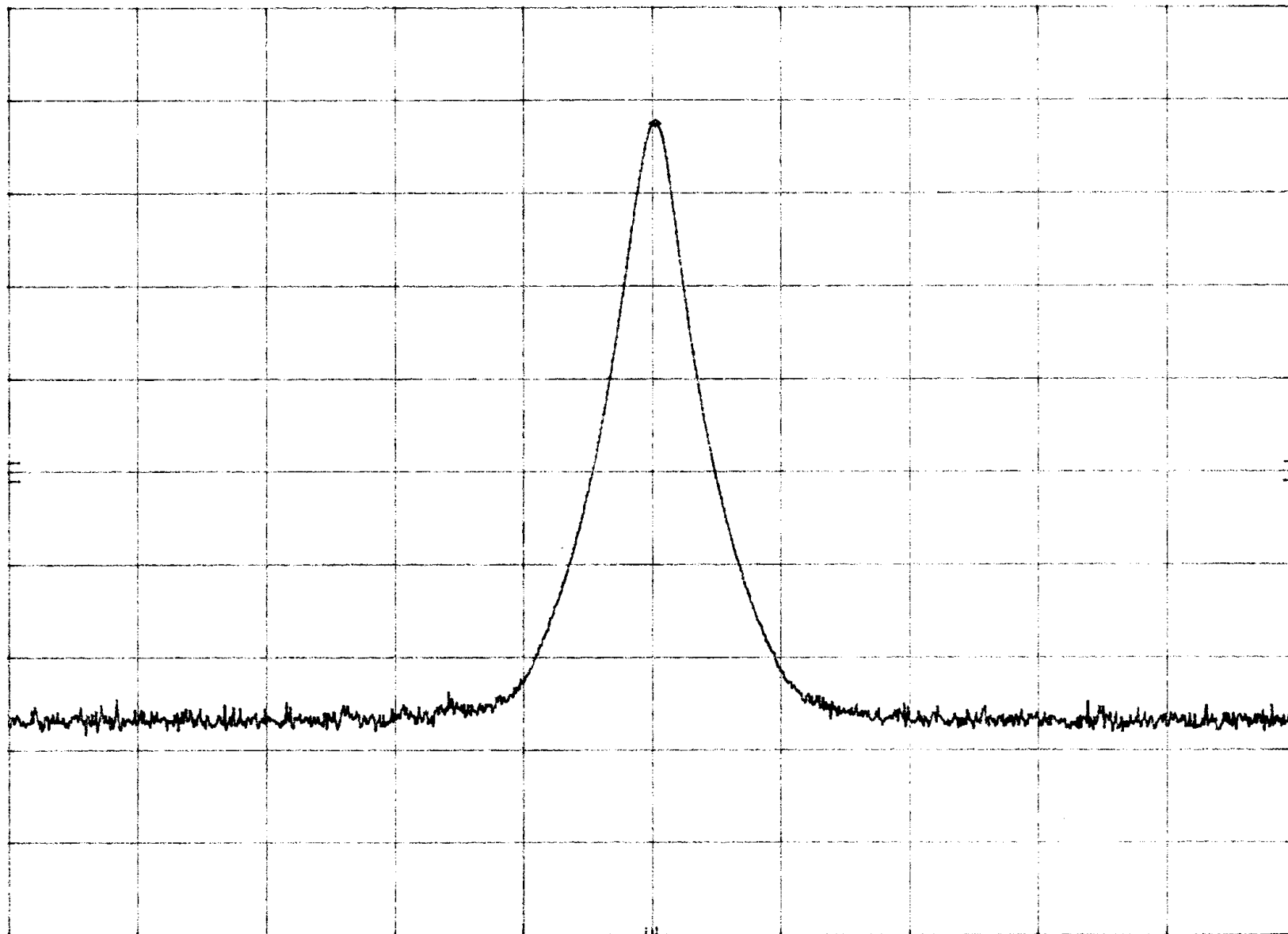
FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 620.010 MHz
17.50 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 620.00 MHz
RES BW 100 KHz (1) VBW 300 KHz

SPAN 5.00 MHz
SWP 20.0 msec 77

Modulation Characteristics

FCC PART 2, PARA. 2.1047(a)

Frequency Response

Customer: VEGA WIRELESS

Date: 02/13/01

EUT: MS-DO MASTER-STATION

Carrier Frequency: 5W 103 TX8 RX12
(MID) 605 MHz HIGH POWER

NOTES:

DEV (Ref) on spectrum analyzer after applying modulation (kHz):

Audio Frequency (Hz)	Deviation noted on Spectrum Analyzer (kHz)
20	7
30	7.5
40	8
50	8
60	8.5
70	9
80	9
90	9.5
100	10
200	10.5
300	10.5
400	10.5
500	10.5
600	10.5
700	11
800	11
900	11
1000	11.5
2000	14
4000	17
6000	23.5
8000	26.5
10000	27
12000	26
14000	20.5
16000	16
18000	12.5
20000	10

2500 15
10 7

Modulation Characteristics

Modulation Limiting

FCC PART 2, PAR. 2.1047(b) AND PART 74, PARA. 74.861(e)(3)

Customer: VEGA WIRELESS

Date: 02/3/01

Eut: MS-700 MASTER STATION

SIN 103 TX 8 RX 12

Carrier Frequency: (M112) 605MHz HIGH POWER

NOTES:

Audio Input Level (dBm)	Audio Input Frequency (Hz)							
	300		1.0K		2.5K		3.0K	
	+ Peak	- Peak	+ Peak	- Peak	+ Peak	- Peak	+ Peak	- Peak
+16	11	11	12	12	17	17	18	18
+10	10	9.5	10.5	10.5	14	14	14.5	14.5
0	8.5	8	9	8.5	10.5	10.5	11	11
-10	7.5	7.5	8	8	8	8	9	8.5
-20	7	7	7.5	7	7.5	7.5	8	7.5
-30	7	7	7	7	7	7	7	7
-40	7	7	7	7	7	7	7	7

OCCUPIED BANDWIDTH
CH16A TRANSMIT 620 MHz TX8 RX12
HIGH POWER SIN103

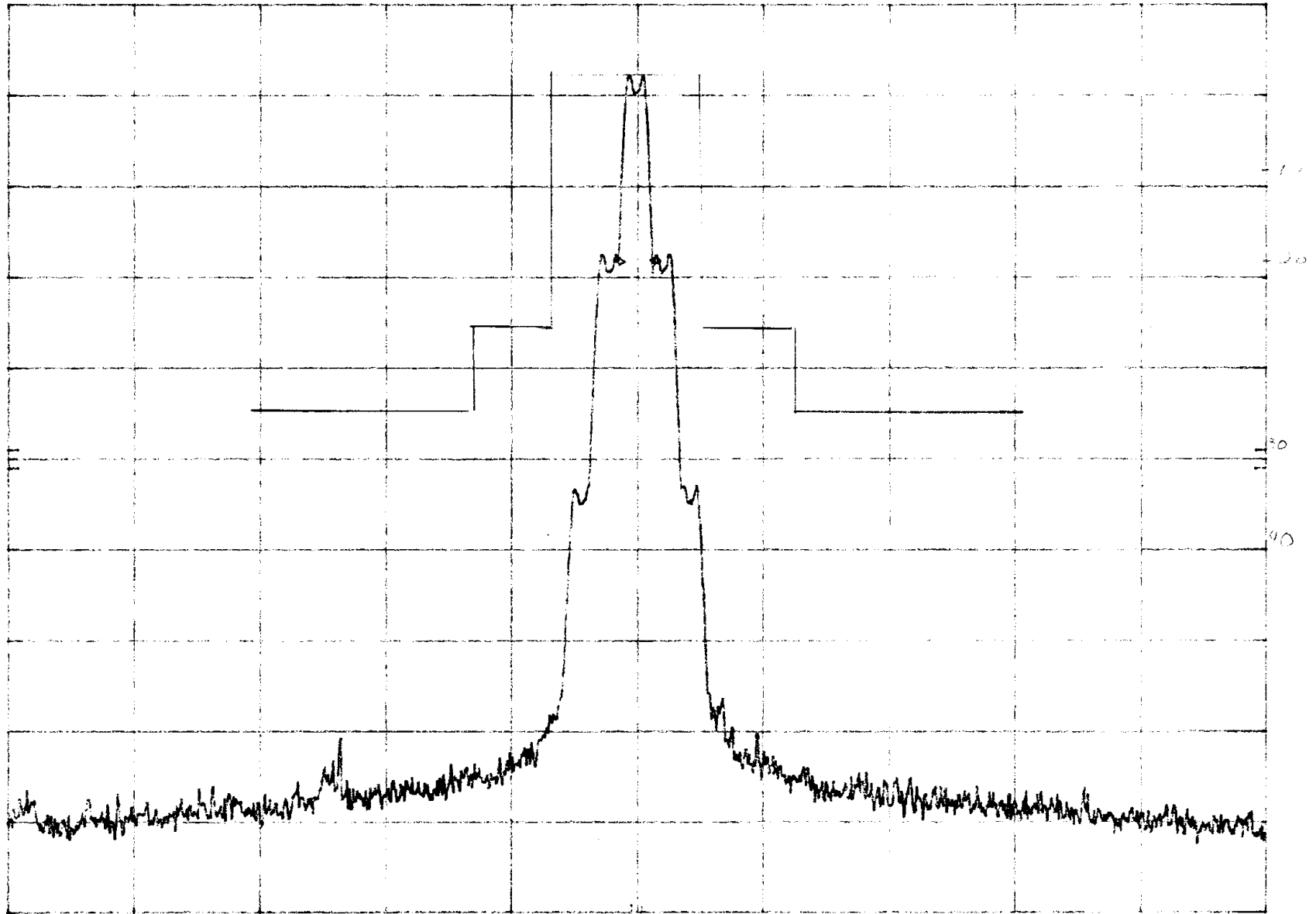
FCC PART 2, PAR. 2.1049 AND PART 74, PARA. 74.861(e)(5); 74.861(e)(6)(i)(ii) OCCUPIED BANDWIDTH

hp REF 30.0 dBm ATTN 40 dB

MKR Δ 48 kHz
0.10 dB

10 dB/

POS PK



CENTER 620.00 MHz

RES BW 10 kHz (i)

VBW 30 kHz

SPAN 1.65 MHz
SWP 124 msec

80

OCCUPIED BANDWIDTH
(HIGH) TRANSMIT 590.025 MHz Tx 9 Rx 12
HIGH POWER SW 103

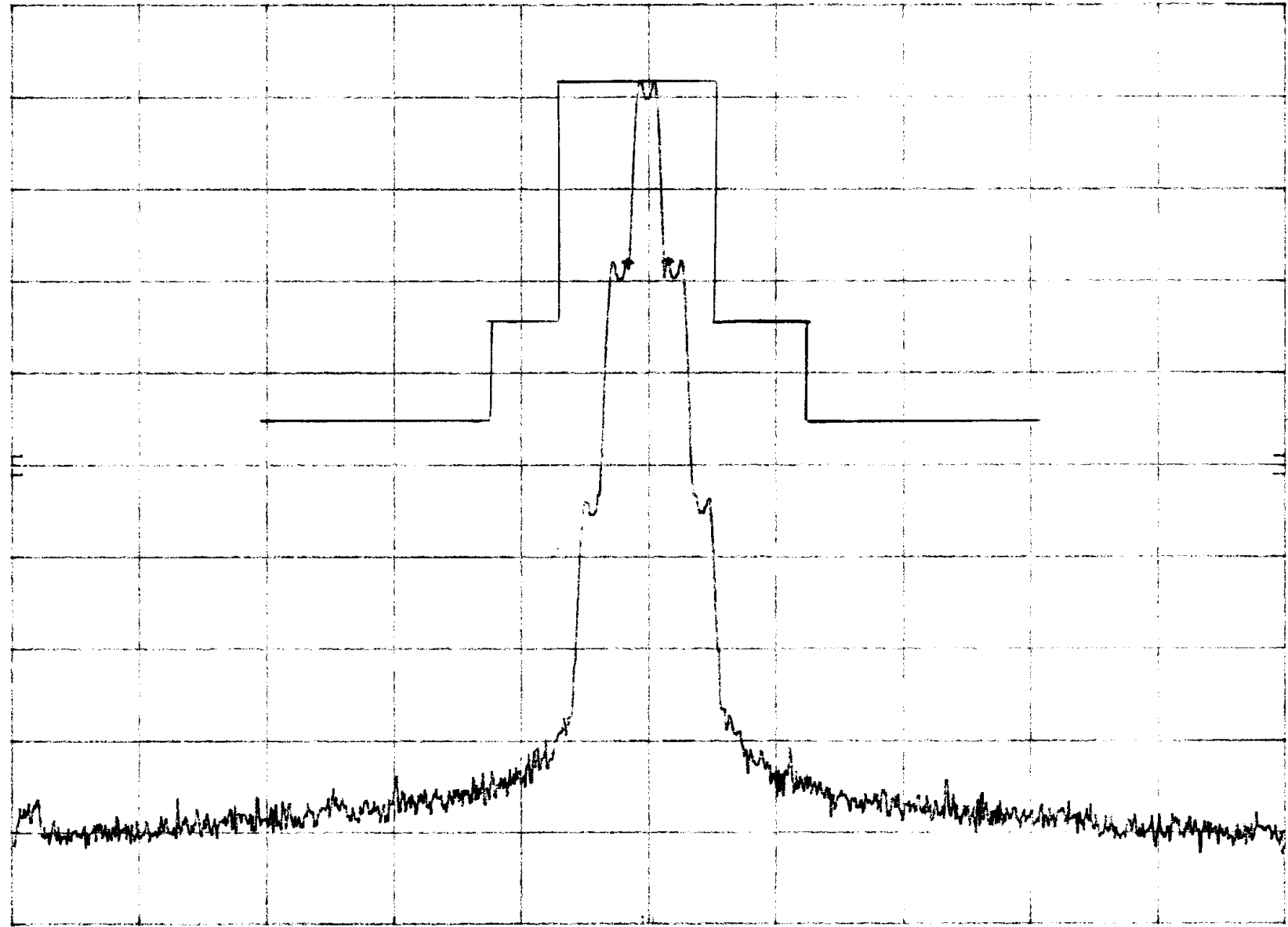
FCC PART 2, PAR. 2.1049 AND PART 74, PARA. 74.861(e)(5); 74.861(e)(6)(i)(ii) OCCUPIED BANDWIDTH

MKR Δ 53 kHz
0.10 dB

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK



CENTER 590.02 MHz SPAN 1.65 MHz
RES BW 10 kHz (1) VBW 30 kHz SWP 124 msec

81

OCCUPIED BANDWIDTH
(M10) TRANSMIT 605 MHz Tx 8 Rx 12
HIGH POWER SW 103

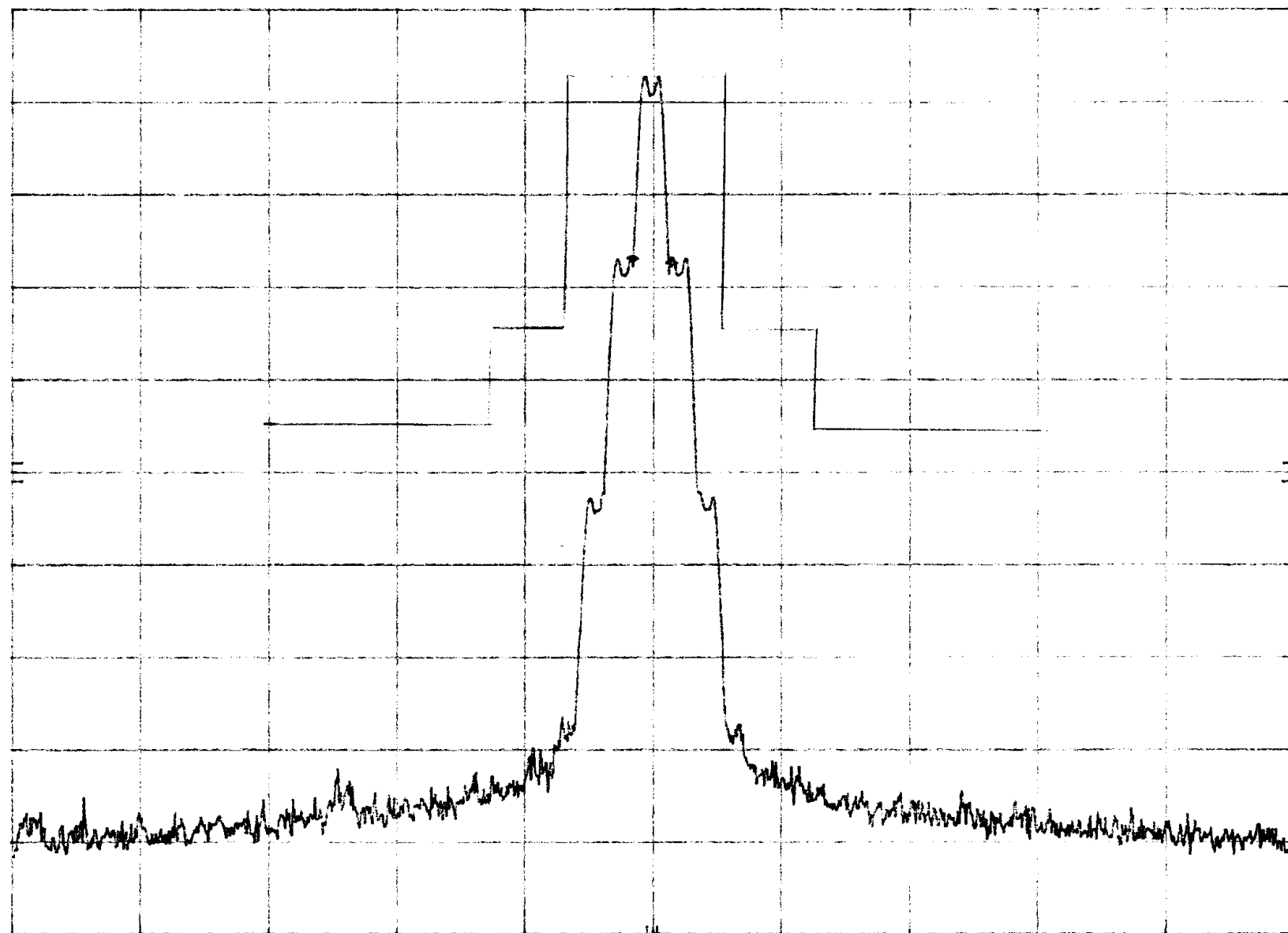
FCC PART 2, PAR. 2.1049 AND PART 74, PARA. 74.861(e)(5); 74.861(e)(6)(i)(ii) OCCUPIED BANDWIDTH

hp REF 30.0 dBm ATTN 40 dB

MKR Δ 51 kHz
-0.50 dB

10 dB/

POS PK



CENTER 605.00 MHz

RES BW 10 kHz (1)

VBW 30 kHz

SPAN 1.65 MHz

SWP 124 msec

82

CONDUCTED SPURIOUS

(LOW) TRANSMIT 590.025 MHz Tx8 Rx12

LOW POWER SIN103

MKR 26.64 MHz

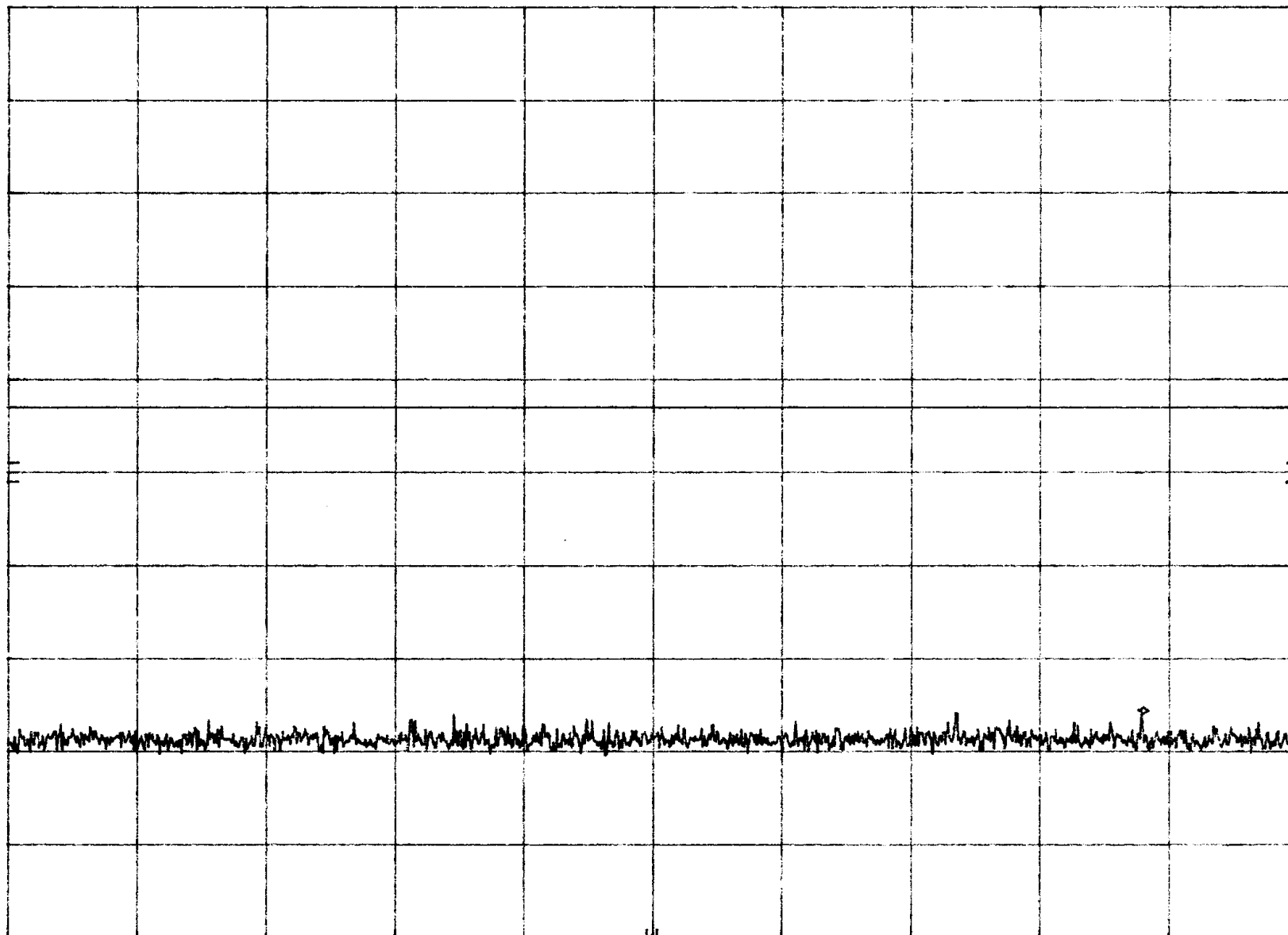
-45.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 30.0 MHz

SWP 21.0 msec

83

CONDUCTED SPURIOUS
(LOW) TRANSMIT 570.025 MHz Tx8 Rx12
LOW POWER SW 103

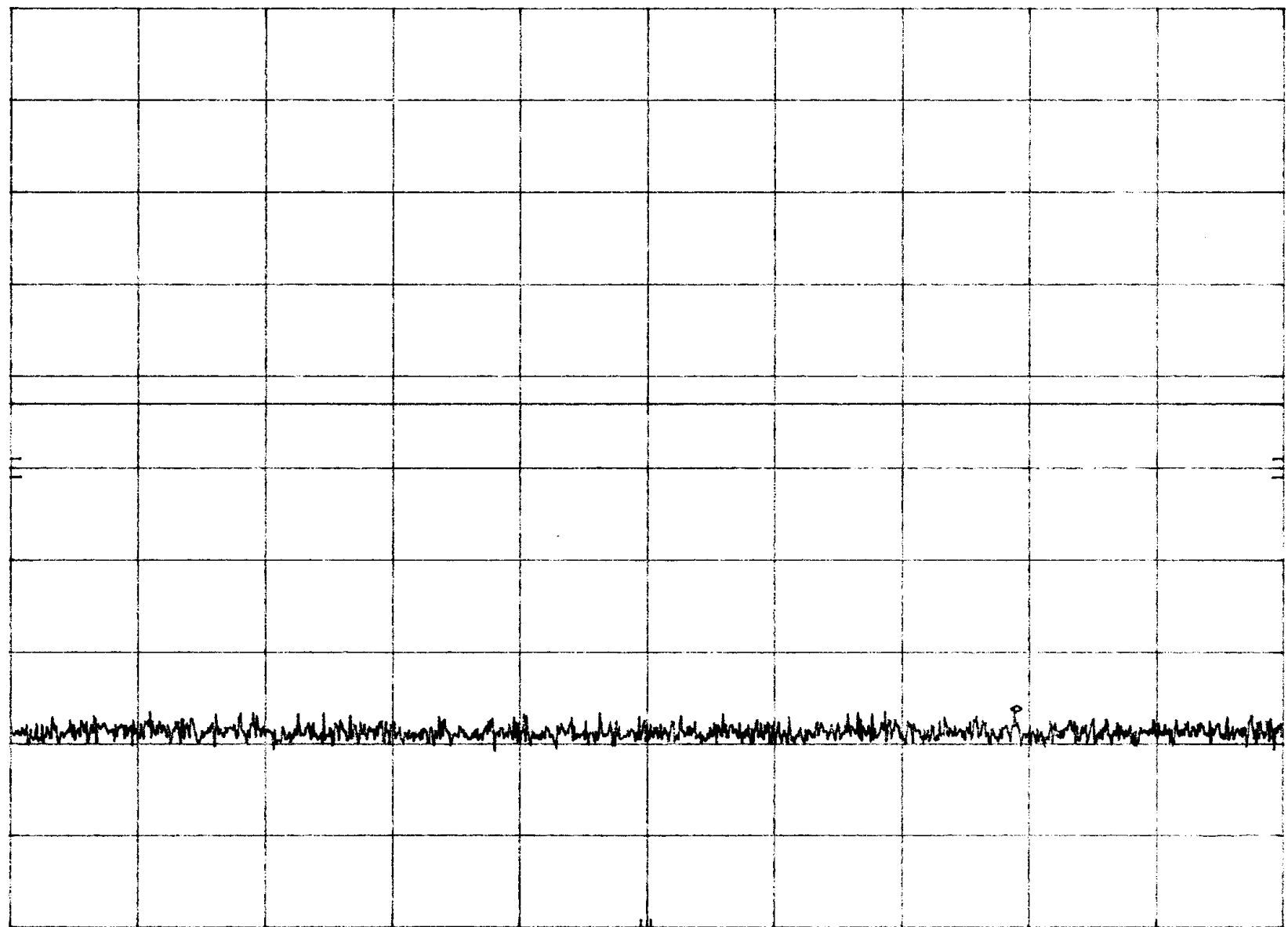
FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 401.3 MHz
-46.20 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/
POS PK

DL
-13.0
dBm



START 30 MHz STOP 500 MHz
RES BW 100 kHz (i) VBW 100 kHz SWP 353 msec 84

CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

(LOW) TRANSMITTER 510 025 MHz Tx8 Rx12

LOW POWER S/N 103

MKR 589.5 MHz

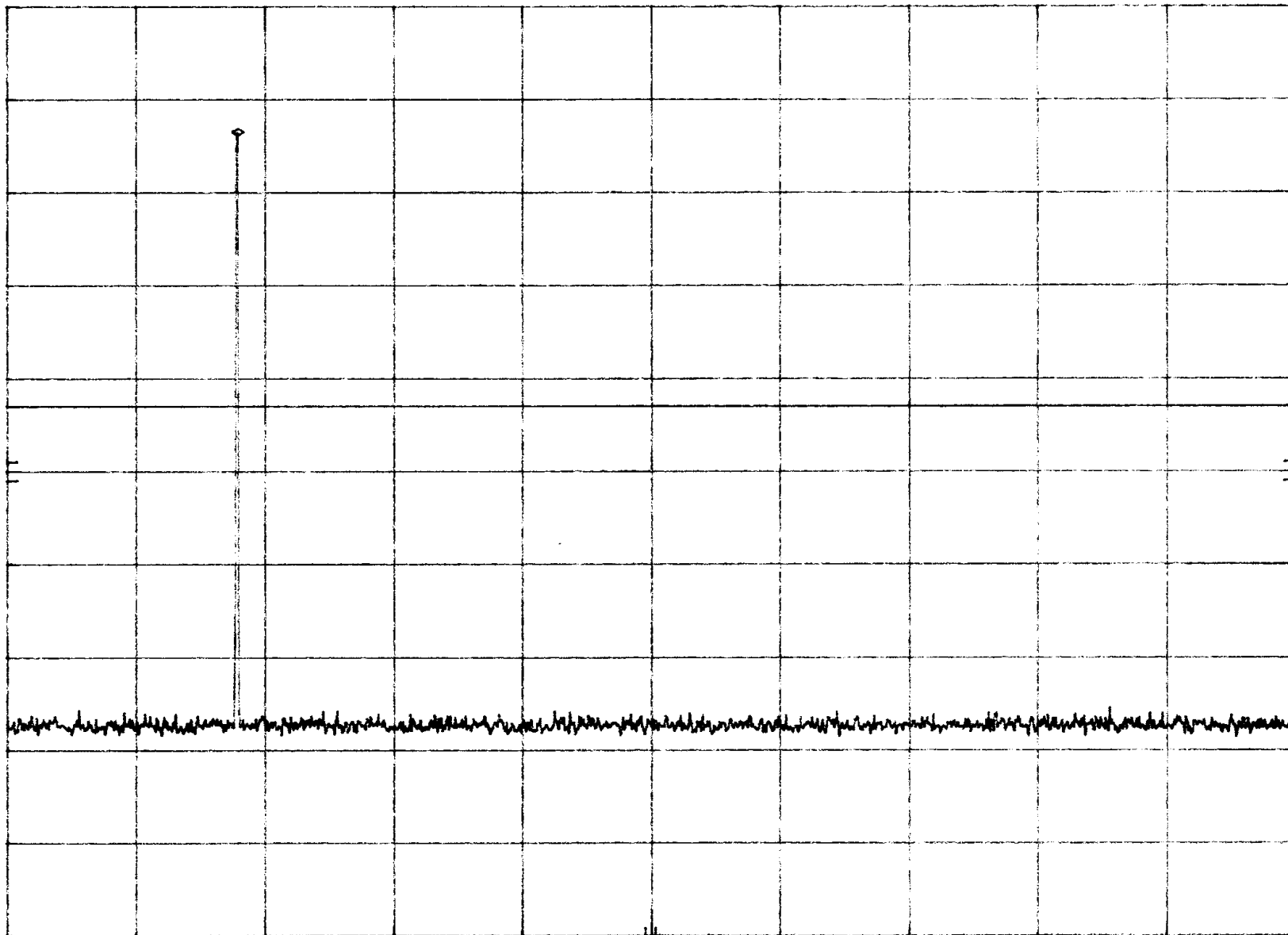
16.50 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 1.000 GHz

SWP 375 msec

85

CONDUCTED SPURIOUS

(LOW) TRANSMIT 590.025 MHz Tx8 Rx12

LOW POWER SNR103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 1.433 GHz

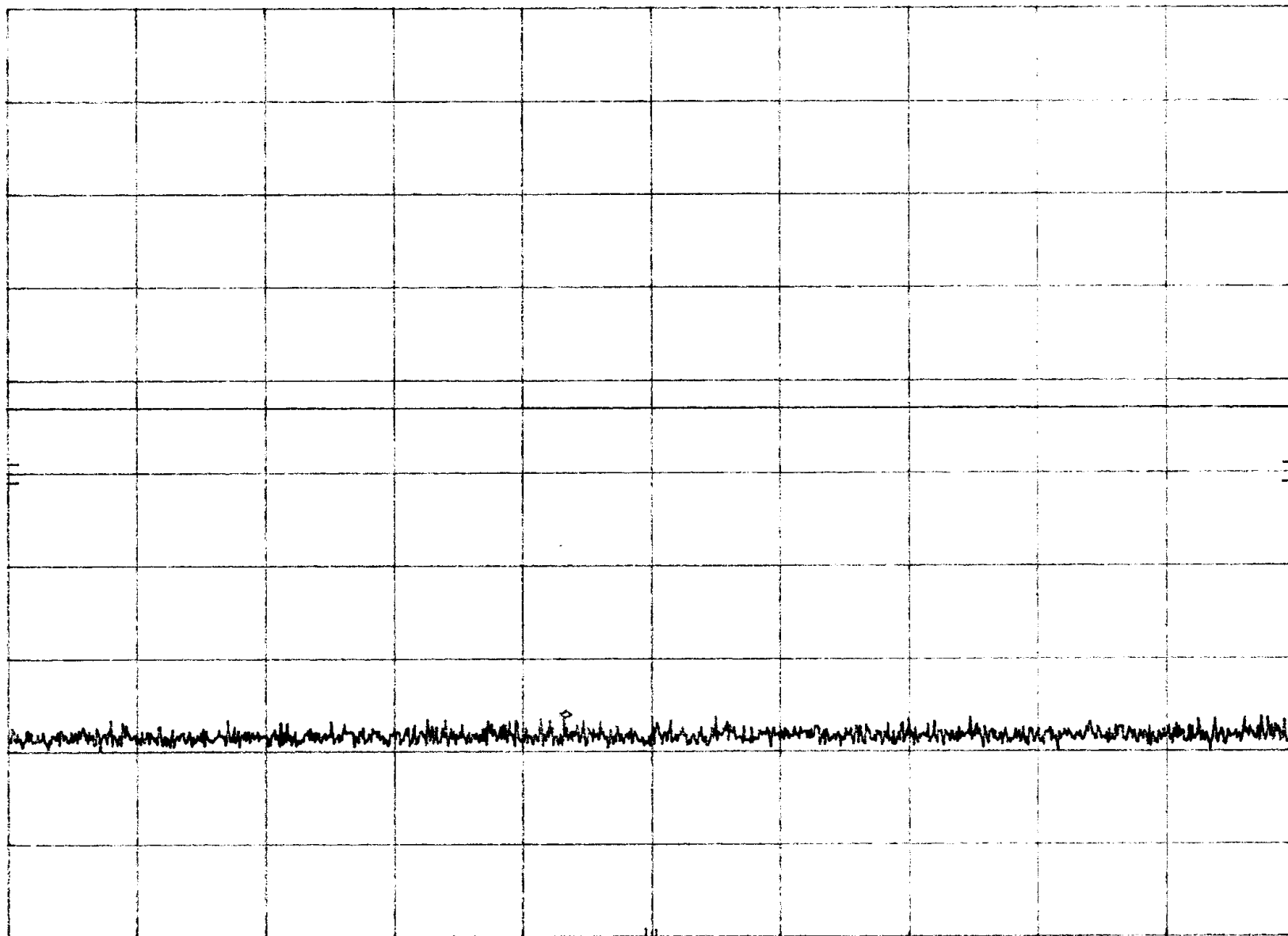
-46.00 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 2.00 GHz
SWP 750 msec

86

CONDUCTED SPURIOUS

(LOW) TRANSMITTER 590.025 MHz TxS Rx12

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

LOW POWER 5W103

MKR 4.784 GHz

-44.70 dBm

hp

REF

30.0 dBm

ATTEN

40 dB

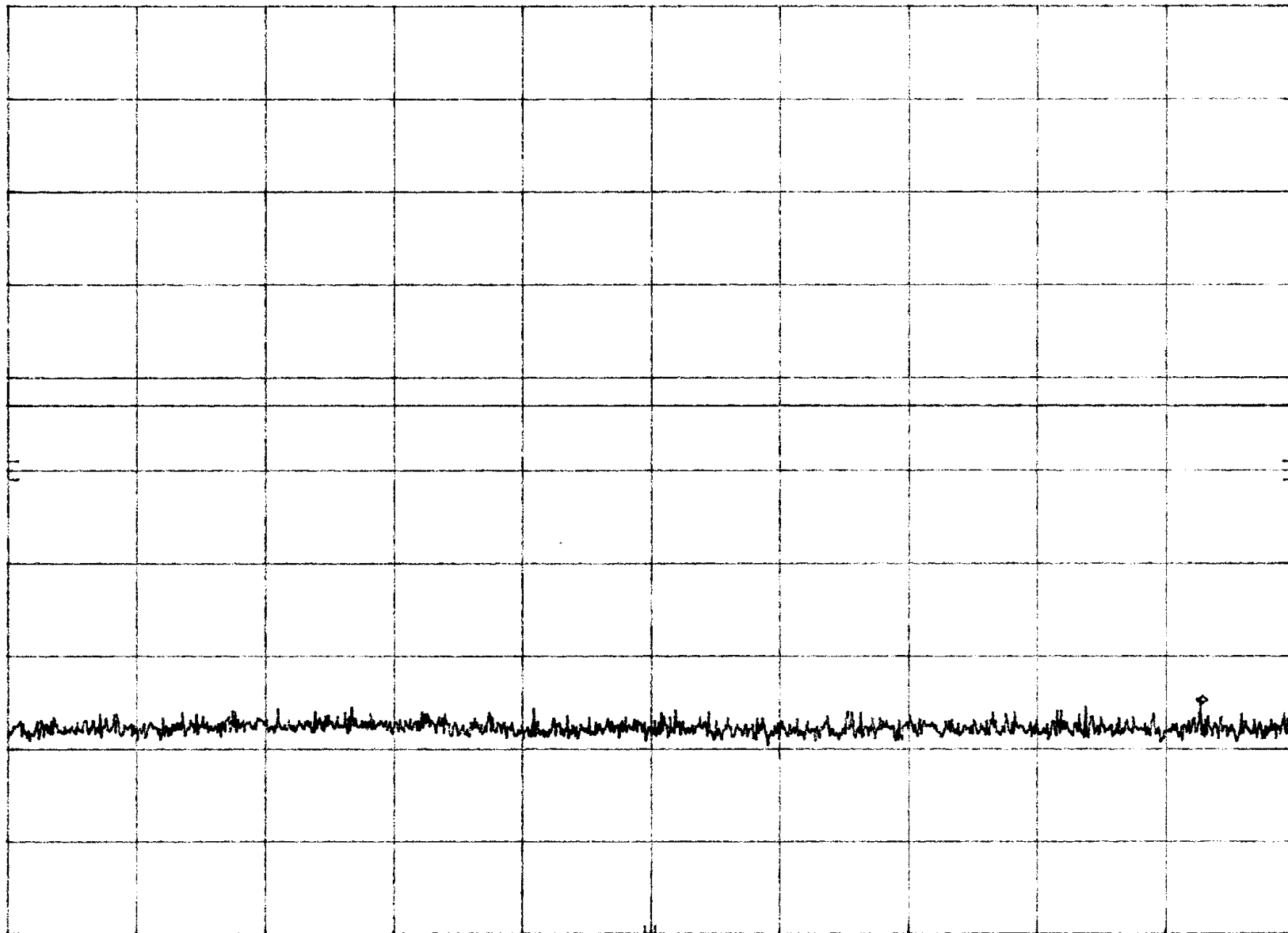
10 dB/

POS PK

DL

-13.0

dBm



START 2.00 GHz

RES BW 100 kHz (1)

VBW 100 kHz

STOP 5.00 GHz

SWP 2.25 sec

81

CONDUCTED SPURIOUS

(LOW) TRANSMIT 590.025 MHz tx 8 rx 12

LOW POWER SIN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 6.680 GHz

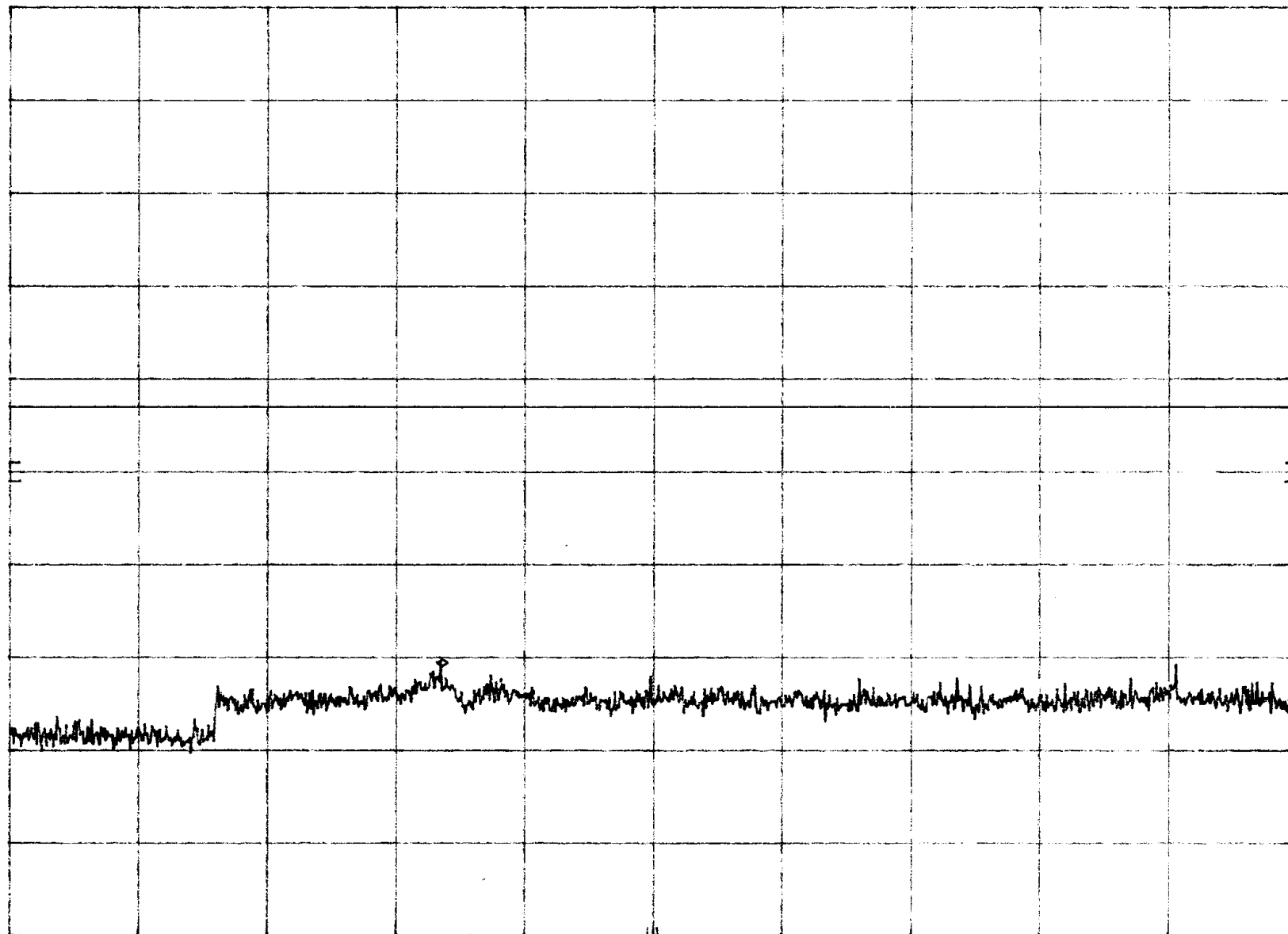
-40.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 10.00 GHz

SWP 3.75 sec

88

CONDUCTED SPURIOUS

(MID) TRANSMIT 605 MHz Tx8 Rx12
LOW POWER SIN103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 24.93 MHz

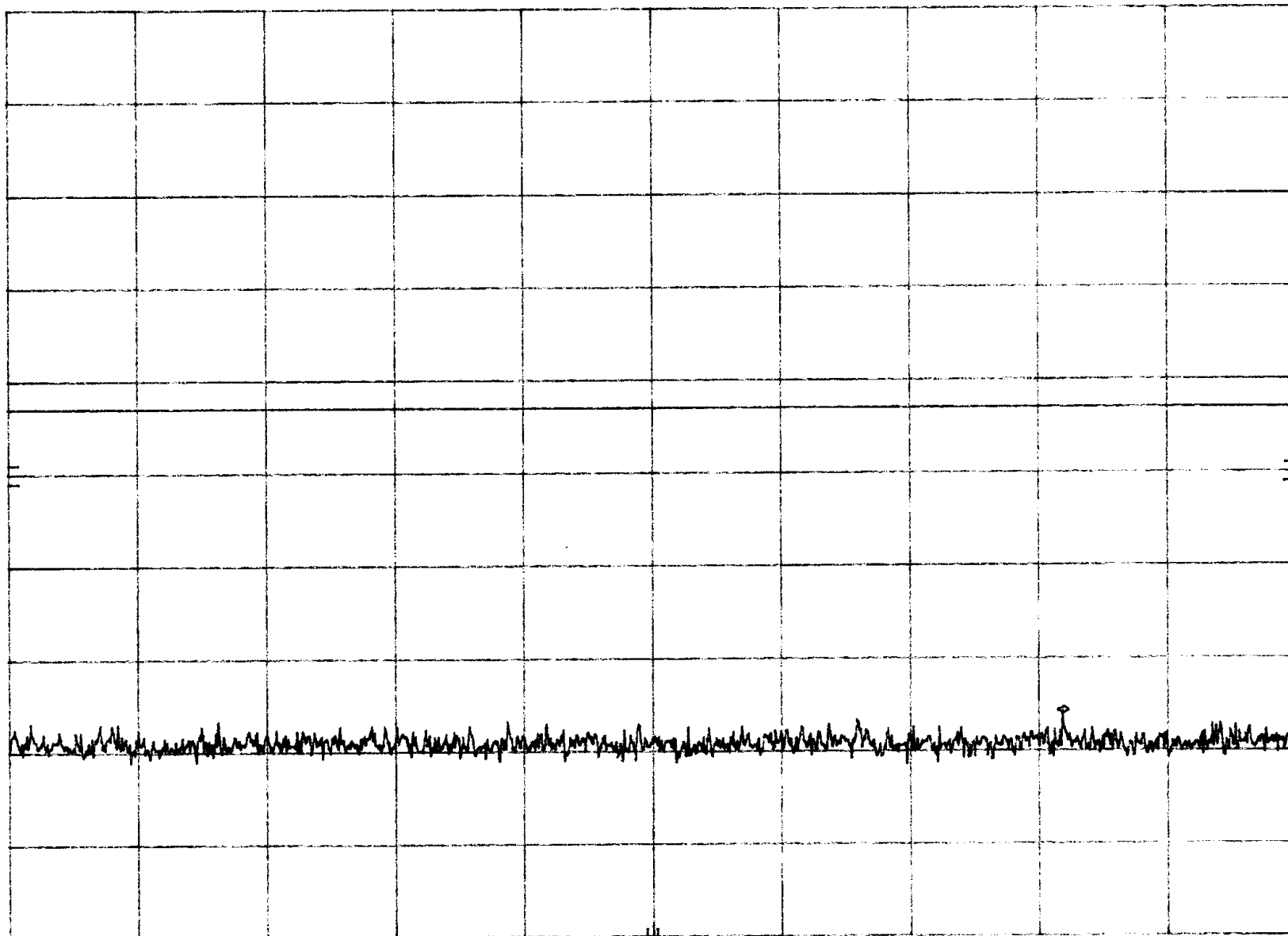
-45.70 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 30.0 MHz

SWP 21.0 msec

89

CONDUCTED SPURIOUS
(MID) TRANSMIT (205 MHz TX8 R-12)
LOW POWER- SIN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

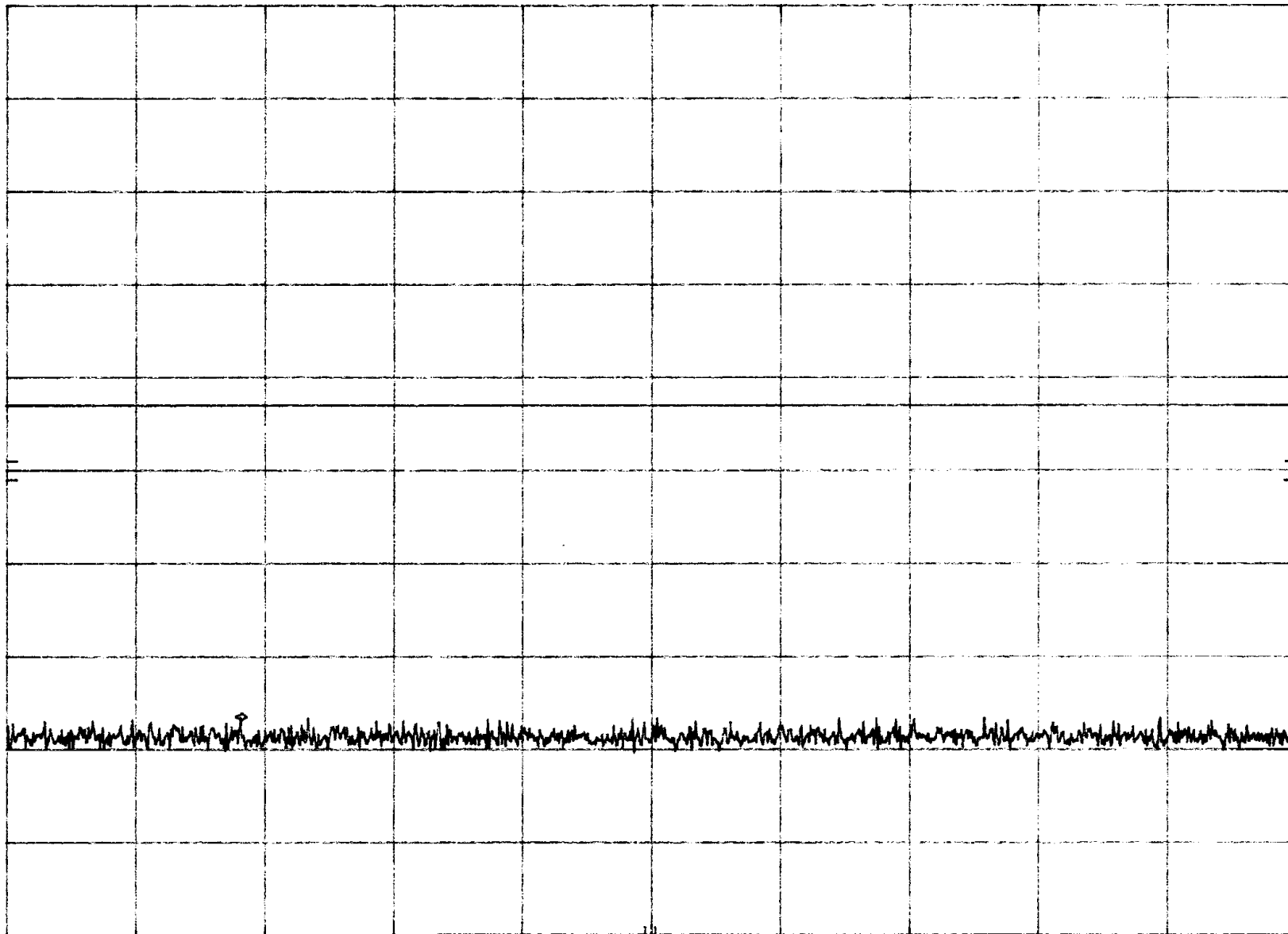
MKR 115.5 MHz
-46.50 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 500 MHz

SWP 353 msec

90

CONDUCTED SPURIOUS
(M10) TRANSMIT 605 MHz Tx8 Rx12
LOW POWER SIN103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

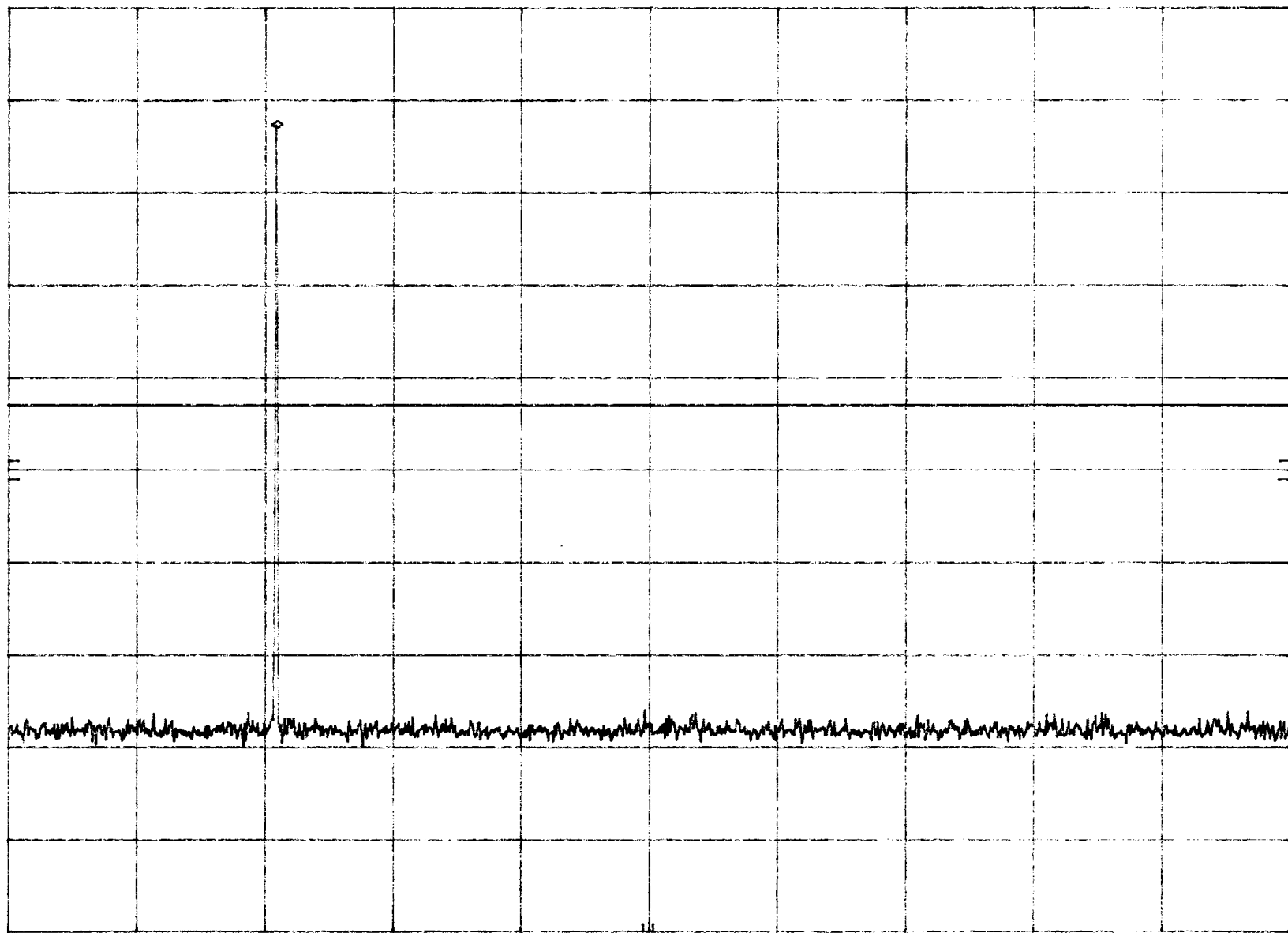
MKR 604.5 MHz
17.40 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 1.000 GHz
SWP 375 msec

CONDUCTED SPURIOUS
(MNO) TRANSMITTER 605 MHz T&S R&P
LOW POWER SW 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

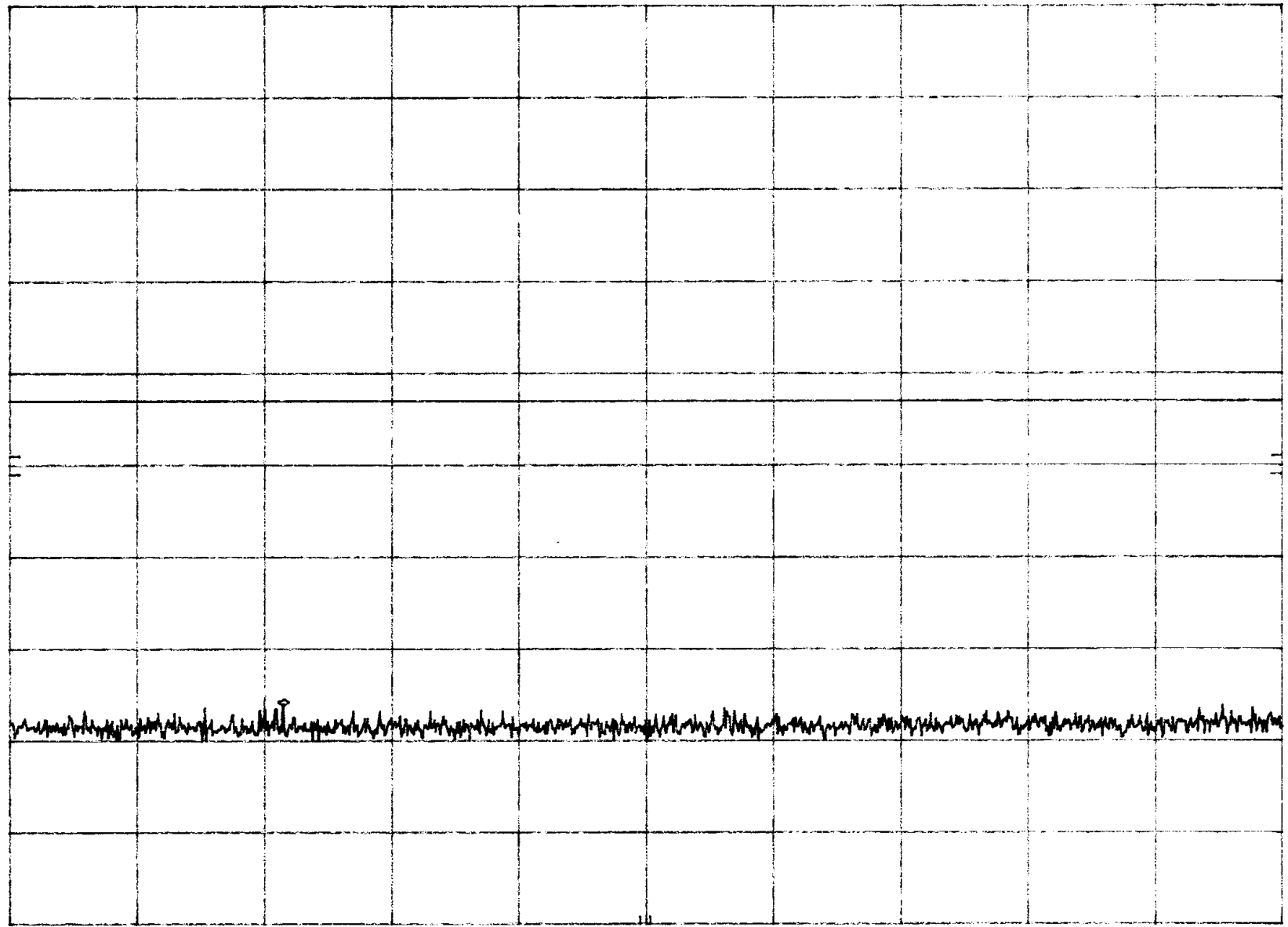
MKR 1.215 GHz
-45.80 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz
RES BW 100 KHz (1) VBW 100 KHz

STOP 2.00 GHz
SWP 750 msec 92

CONDUCTED SPURIOUS
(MID) TRANSMIT 605 MHz Tx8 Rx12
LOW POWER SW 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

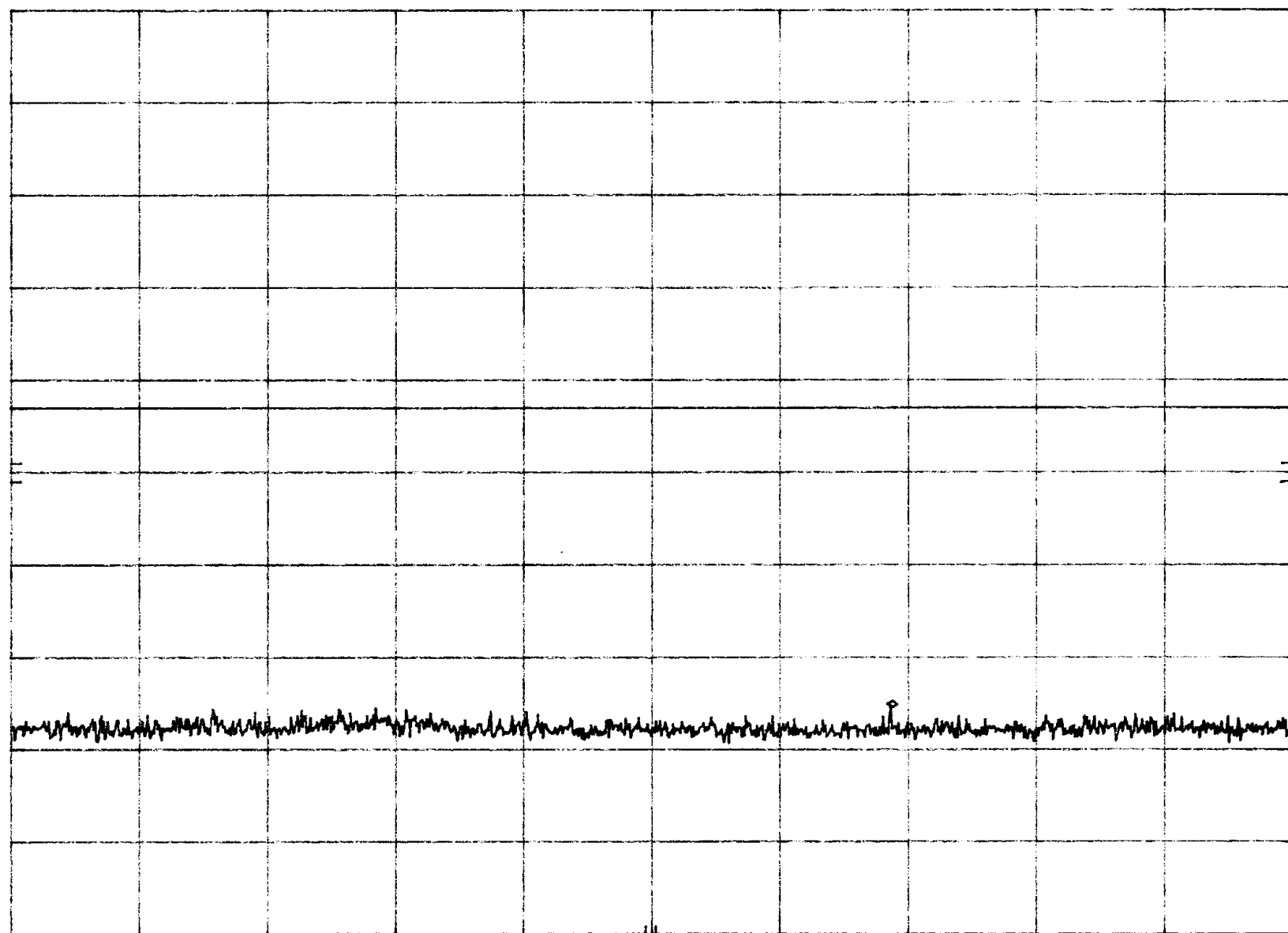
MKR 4.061 GHz
-45.10 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz STOP 5.00 GHz
RES BW 100 kHz (i) VBW 100 kHz SWP 2.25 sec 93

CONDUCTED SPURIOUS
(MID) TRANSMIT 605 MHz Tx8 Rx12
LOW POWER 5/1/03

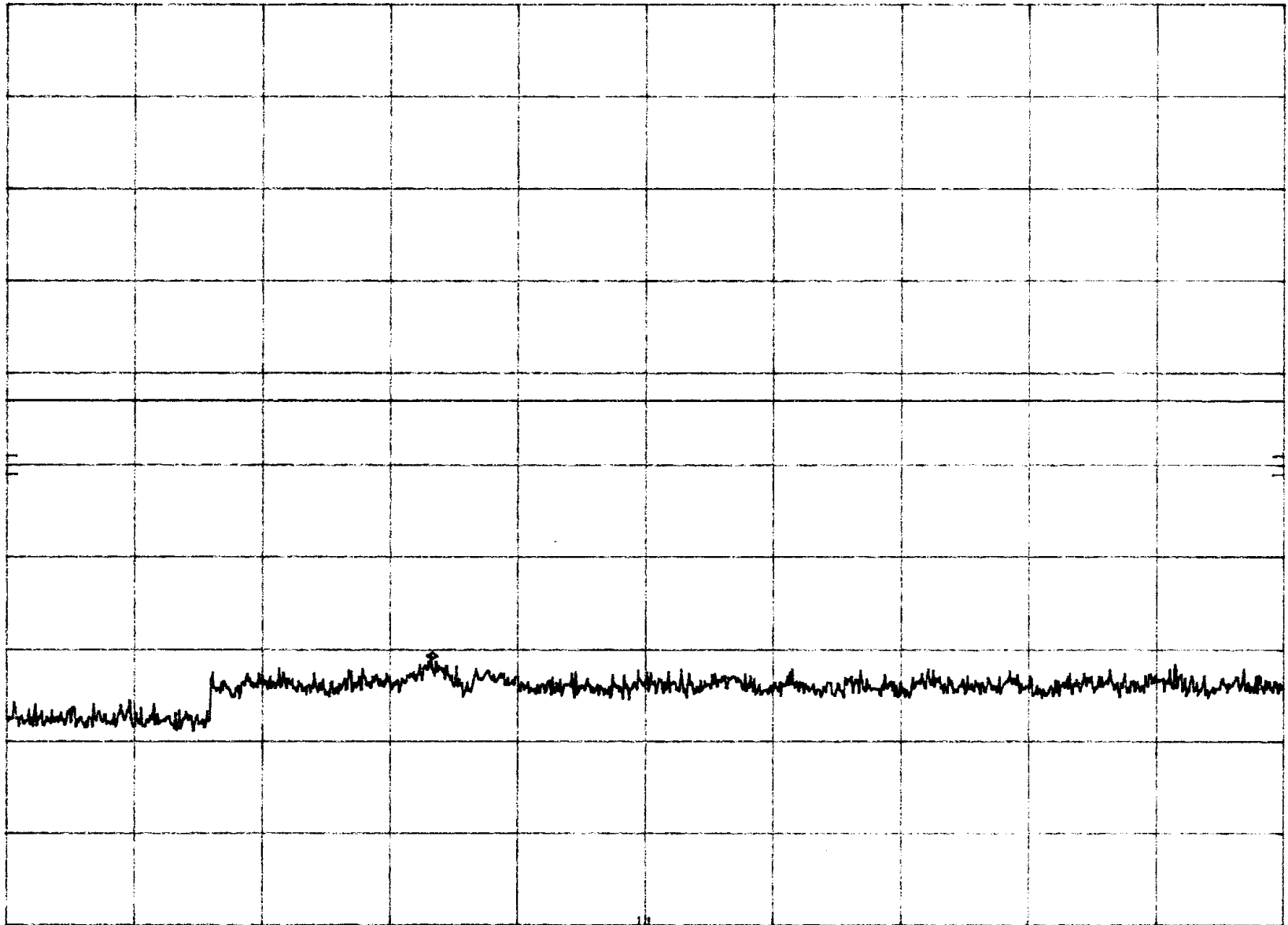
MKR 6.665 GHz
-40.70 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

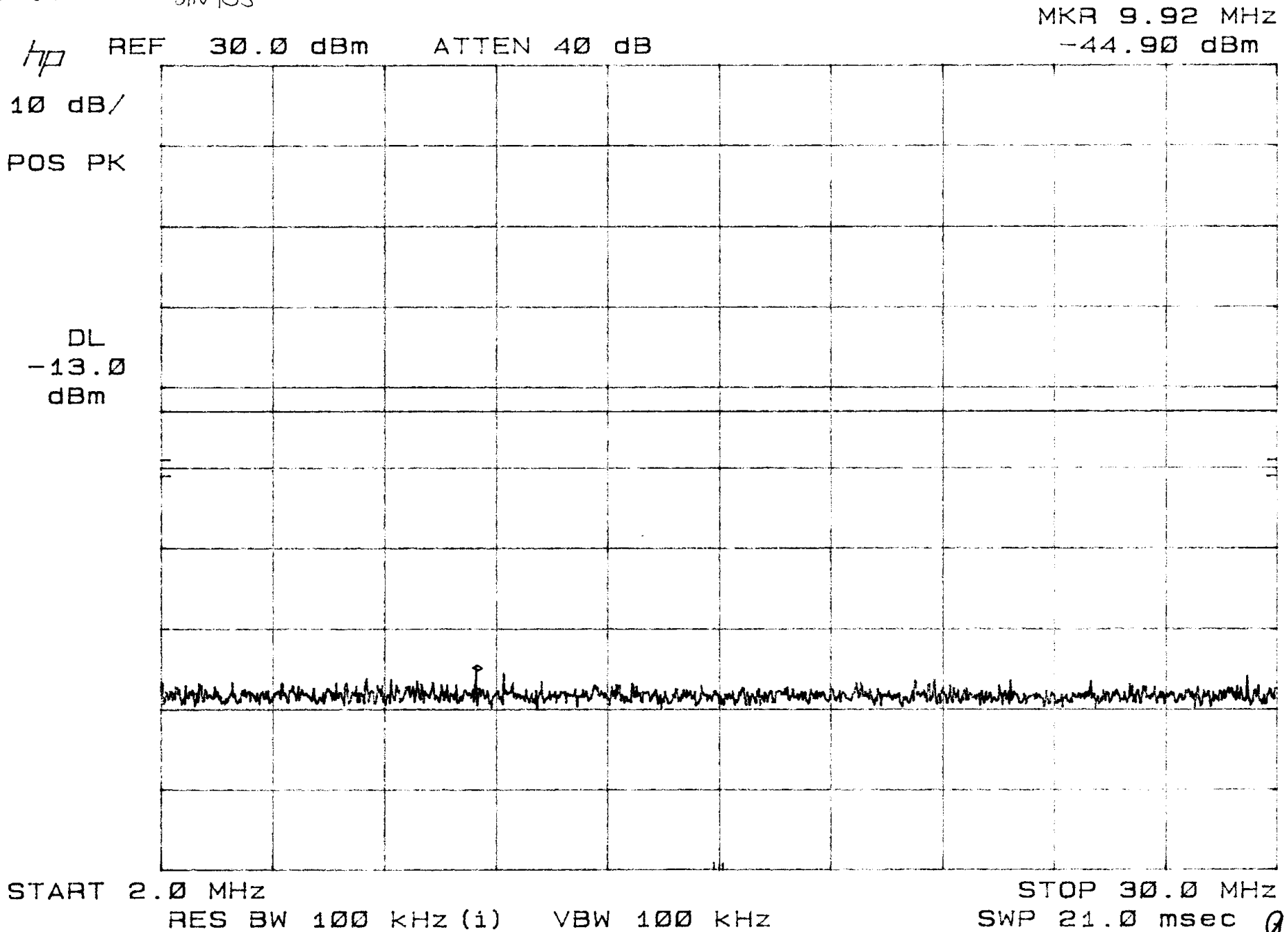
RES BW 100 KHz (1) VBW 100 KHz

STOP 10.00 GHz

SWP 3.75 sec 94

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 600 MHz Tx8 Rx12
LOW POWER S/N 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

(HIGH) TRANSMIT 600 MHz tx2 2x12

LOW POWER S/N 103

MKR 71.8 MHz

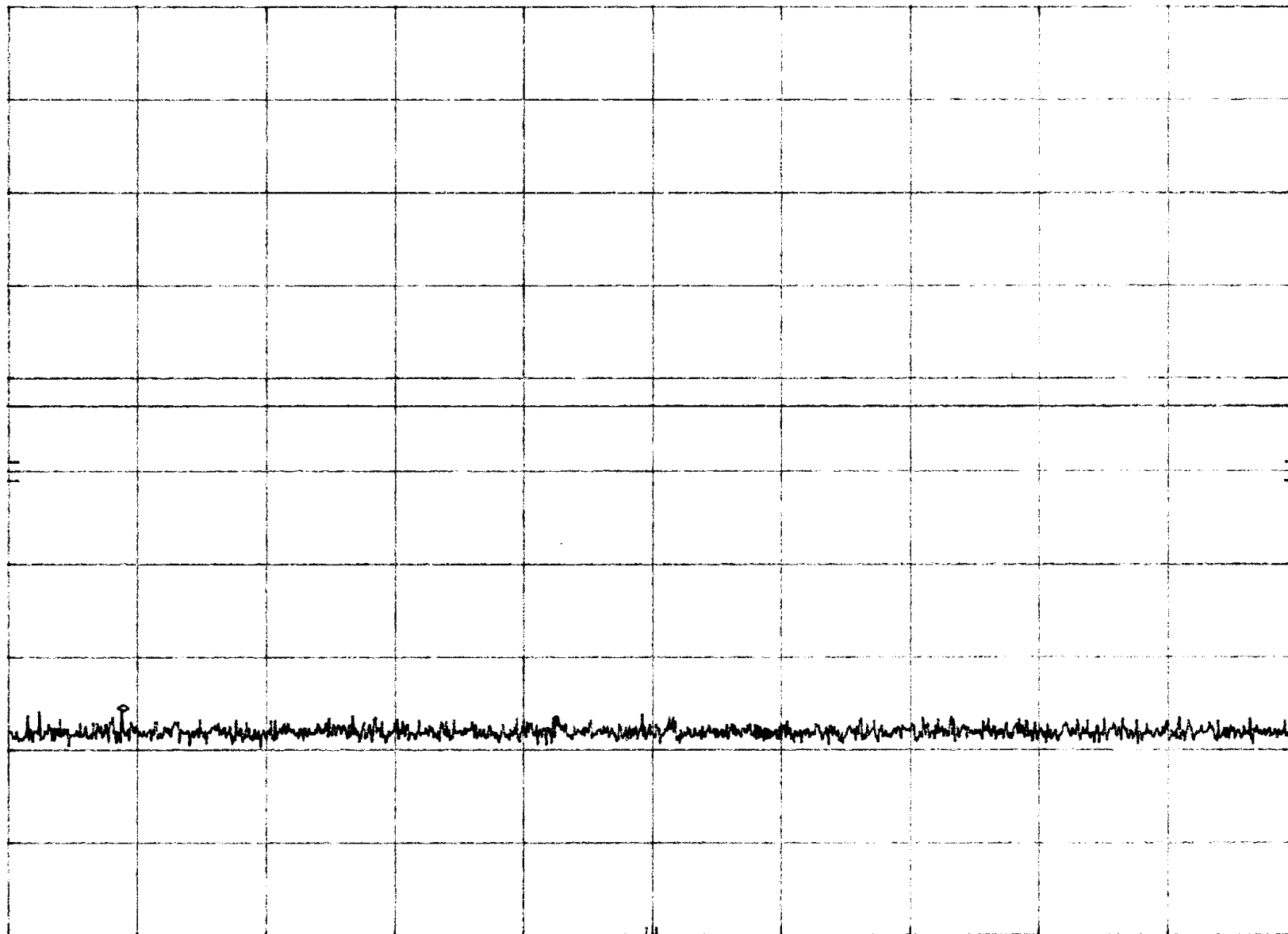
hp REF 30.0 dBm ATTEN 40 dB

-45.50 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

STOP 500 MHz

RES BW 100 kHz (1) VBW 100 kHz

SWP 353 msec

96

CONDUCTED SPURIOUS

(H16N) TRANSMIT 620 MHz TXR R12

LOW POWER

SN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 619.5 MHz

17.10 dBm

HP

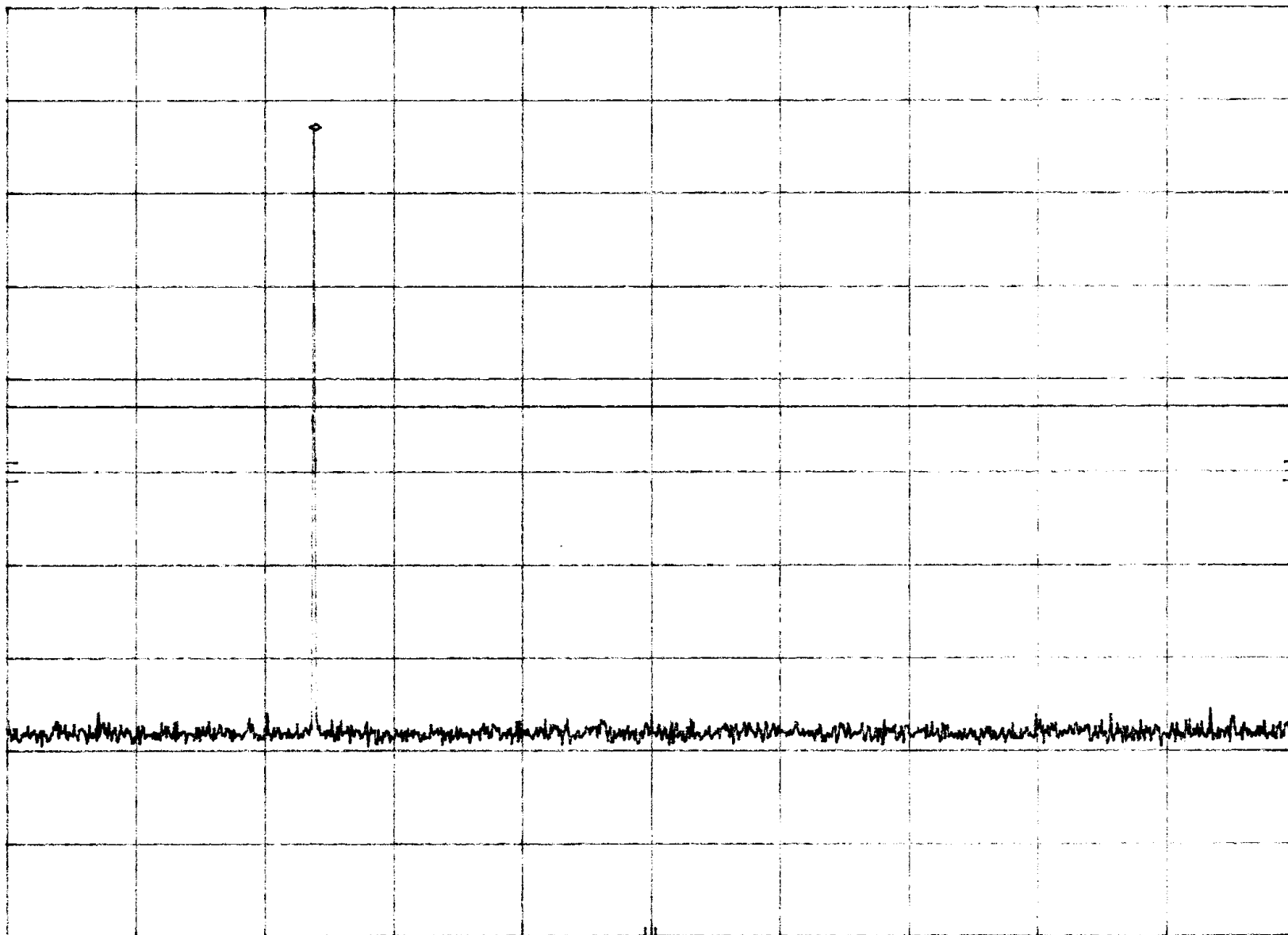
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 1.000 GHz

SWP 375 msec

91

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 670 MHz Tx8 Rx12
LOW POWER SIN 103

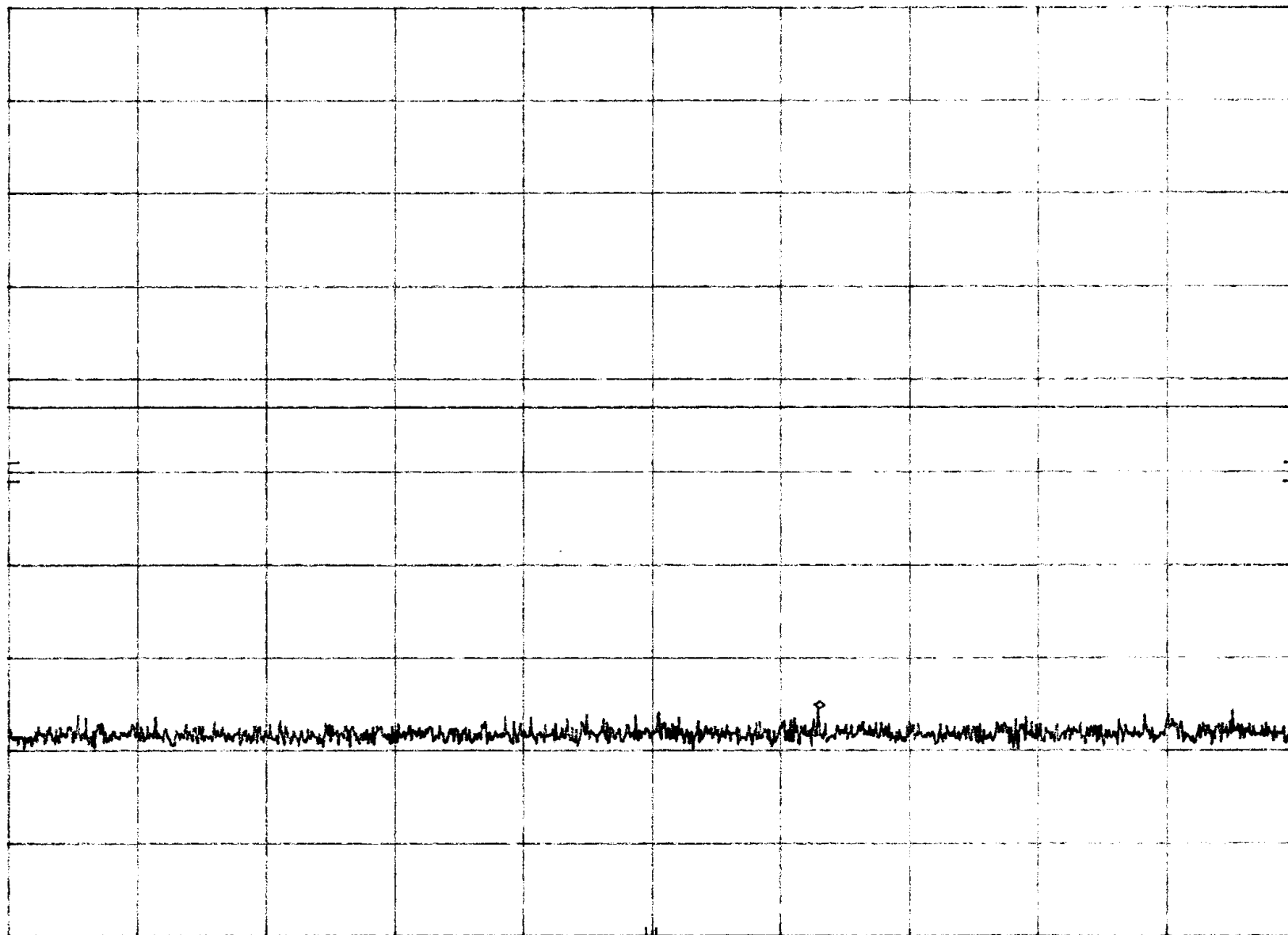
MKR 1.630 GHz
-45.10 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 2.00 GHz
SWP 750 msec

CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

(HIGH) TRANSMIT 0.20 MHz TX8 Rx12

LOW POWER - SN 103

MKR 3.062 GHz

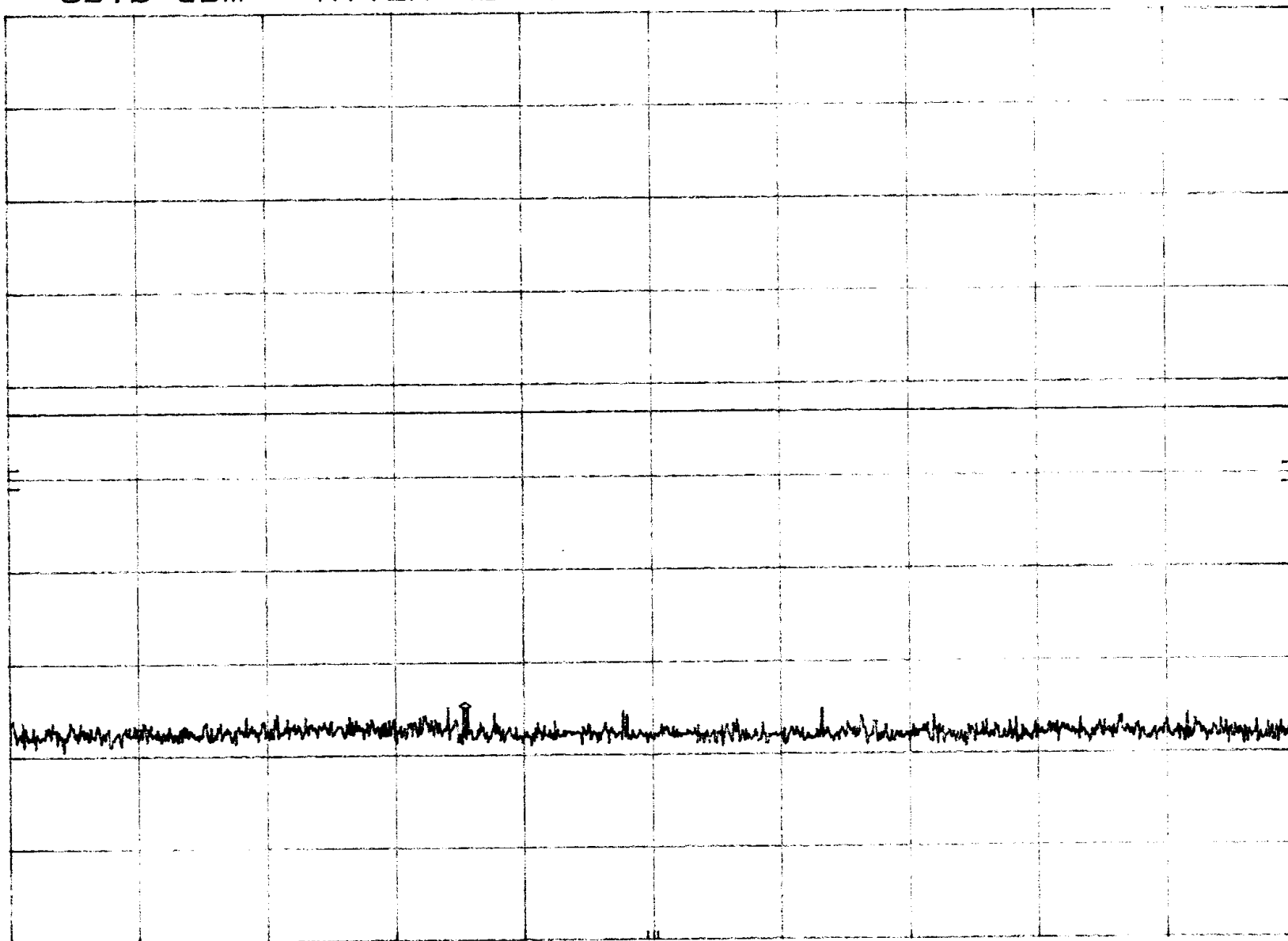
hp REF 30.0 dBm ATTN 40 dB

-44.70 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 5.00 GHz

SWP 2.25 sec

99

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 620MHz TX8 Rx12
LOW POWER SIN 103

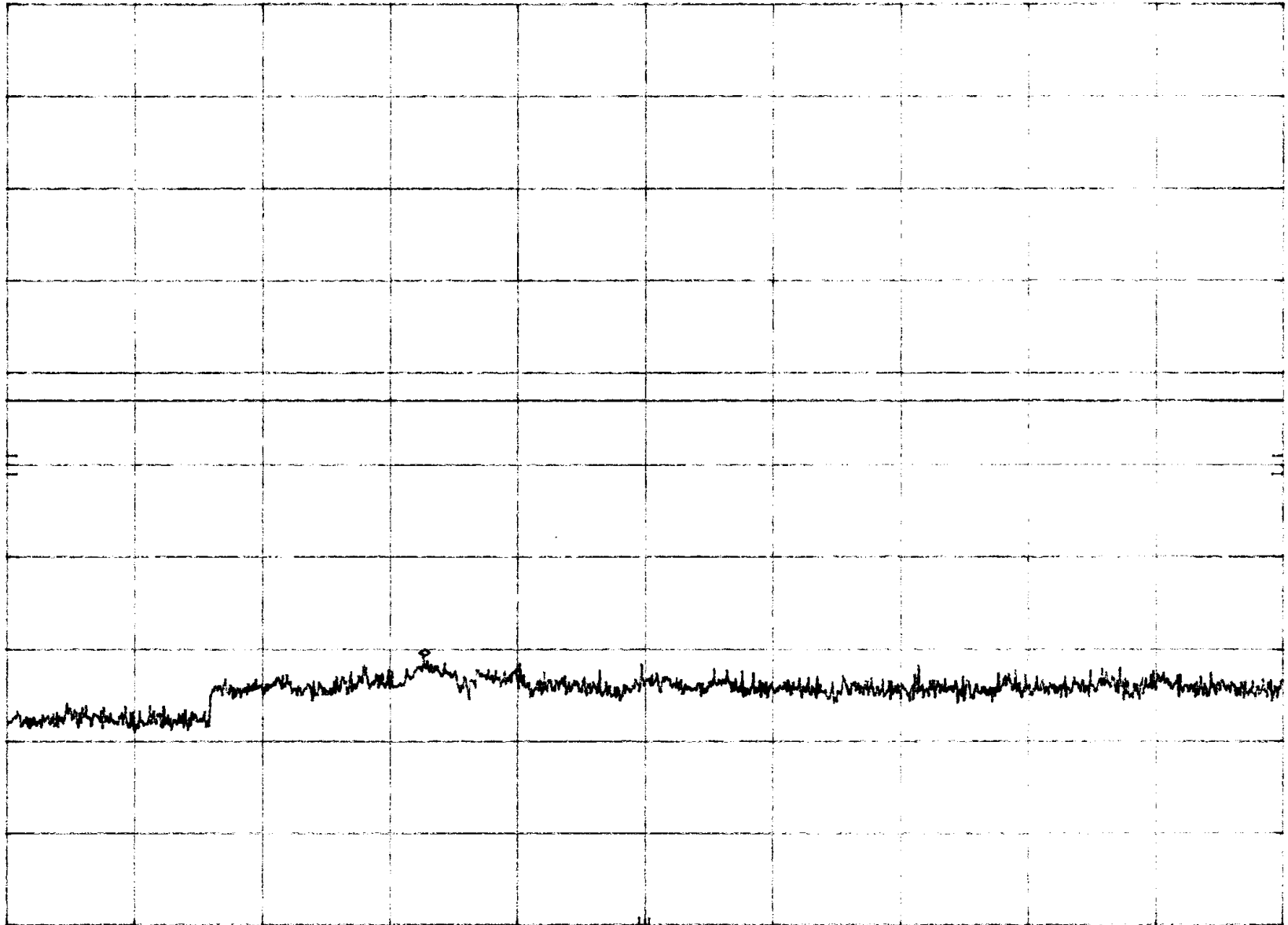
MKR 6.635 GHz
-40.40 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 10.00 GHz
SWP 3.75 sec

100

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 600 MHz Tx 9 Rx 12
LOW POWER SIN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(c)(6)(iii) CONDUCTED SPURIOUS

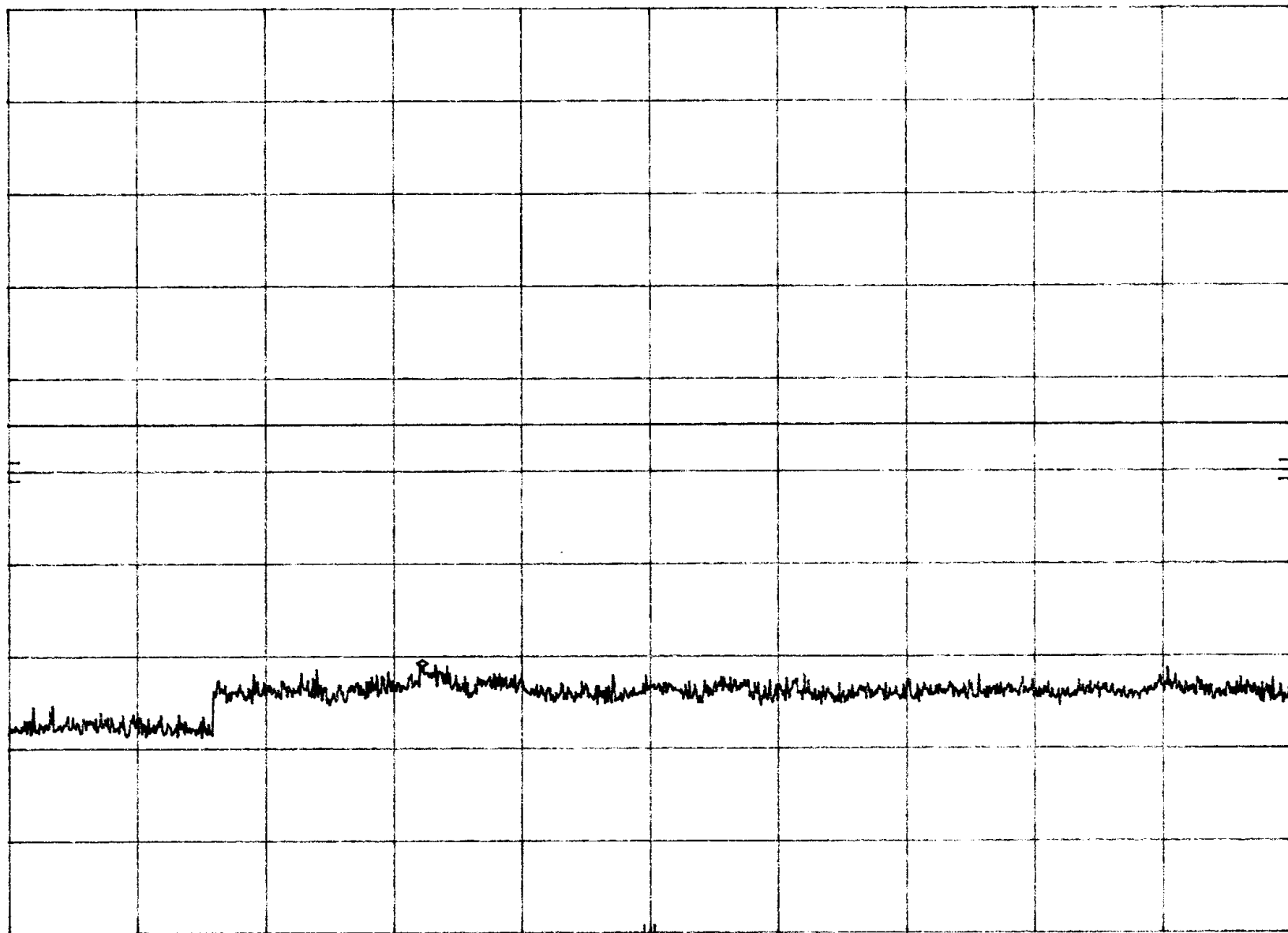
MKR 6.610 GHz
-40.80 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-15.0
dBm



START 5.00 GHz STOP 10.00 GHz
RES BW 100 KHz (1) VBW 100 KHz SWP 3.75 sec 101

CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

(LOW) TRANSMITTER 390.025 MHz TX & RX 12

HIGH POWER SIN 103

MKR 12.70 MHz

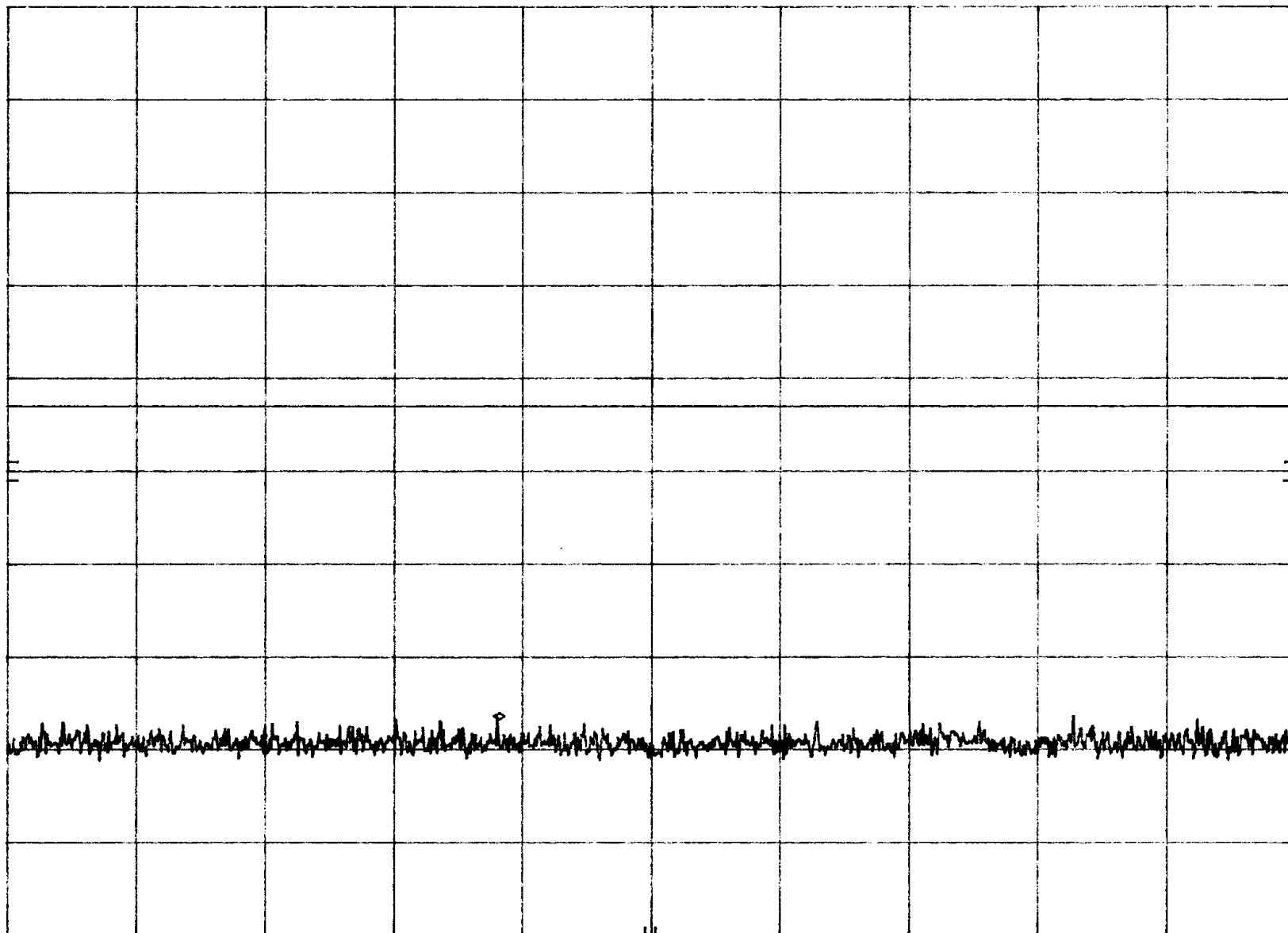
hp REF 30.0 dBm ATTN 40 dB

-46.40 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 30.0 MHz
SWP 21.0 msec

102

CONDUCTED SPURIOUS
(LOW) TRANSMIT 50.025 MHz TX8 Ex12
HIGH POWER SIN103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

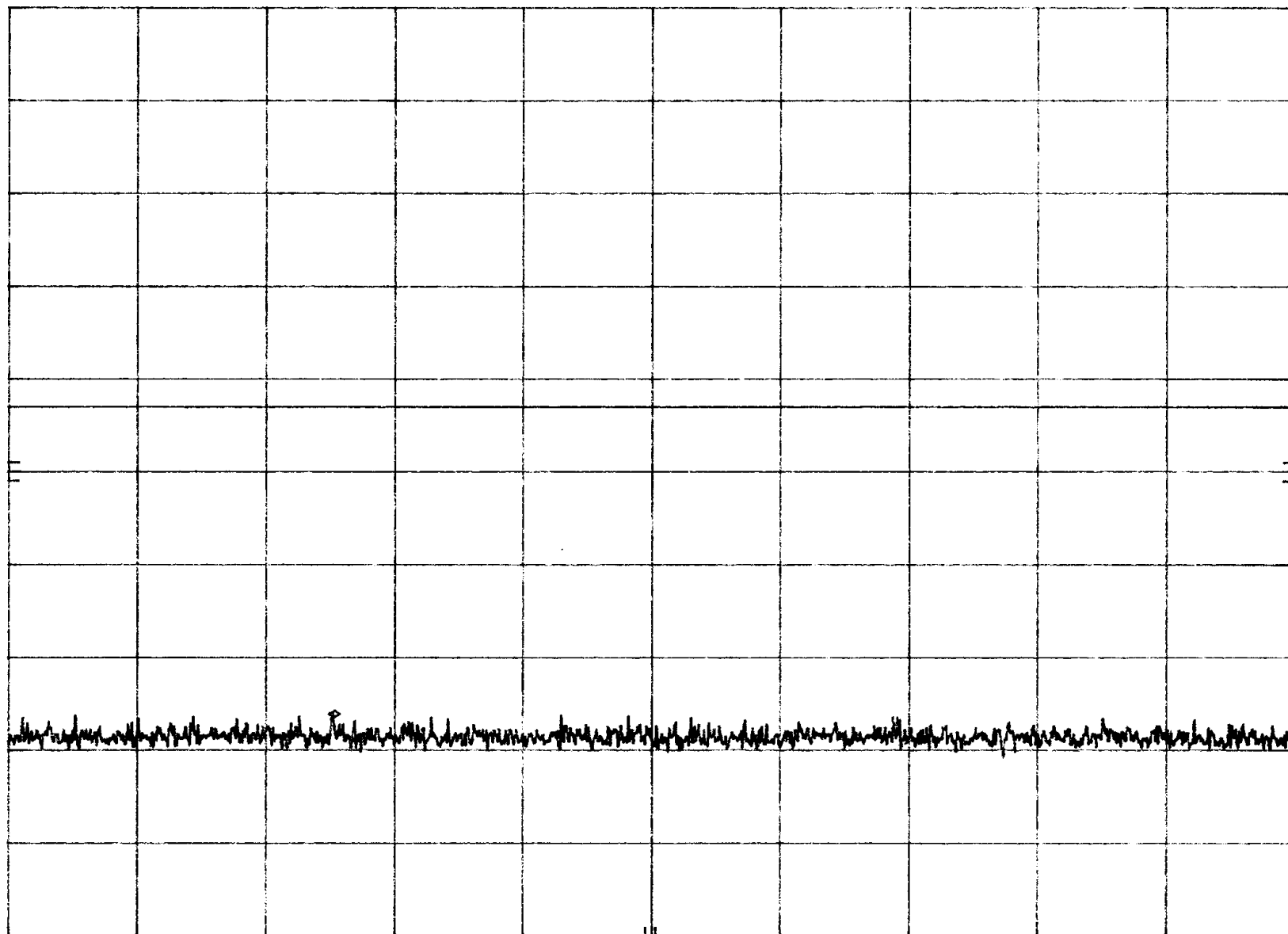
MKR 148.9 MHz
-46.10 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 500 MHz

SWP 353 msec

103

CONDUCTED SPURIOUS
(LOW) TRANSMIT 589.024 MHz Tx8 Rx12
HIGH POWER SIN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

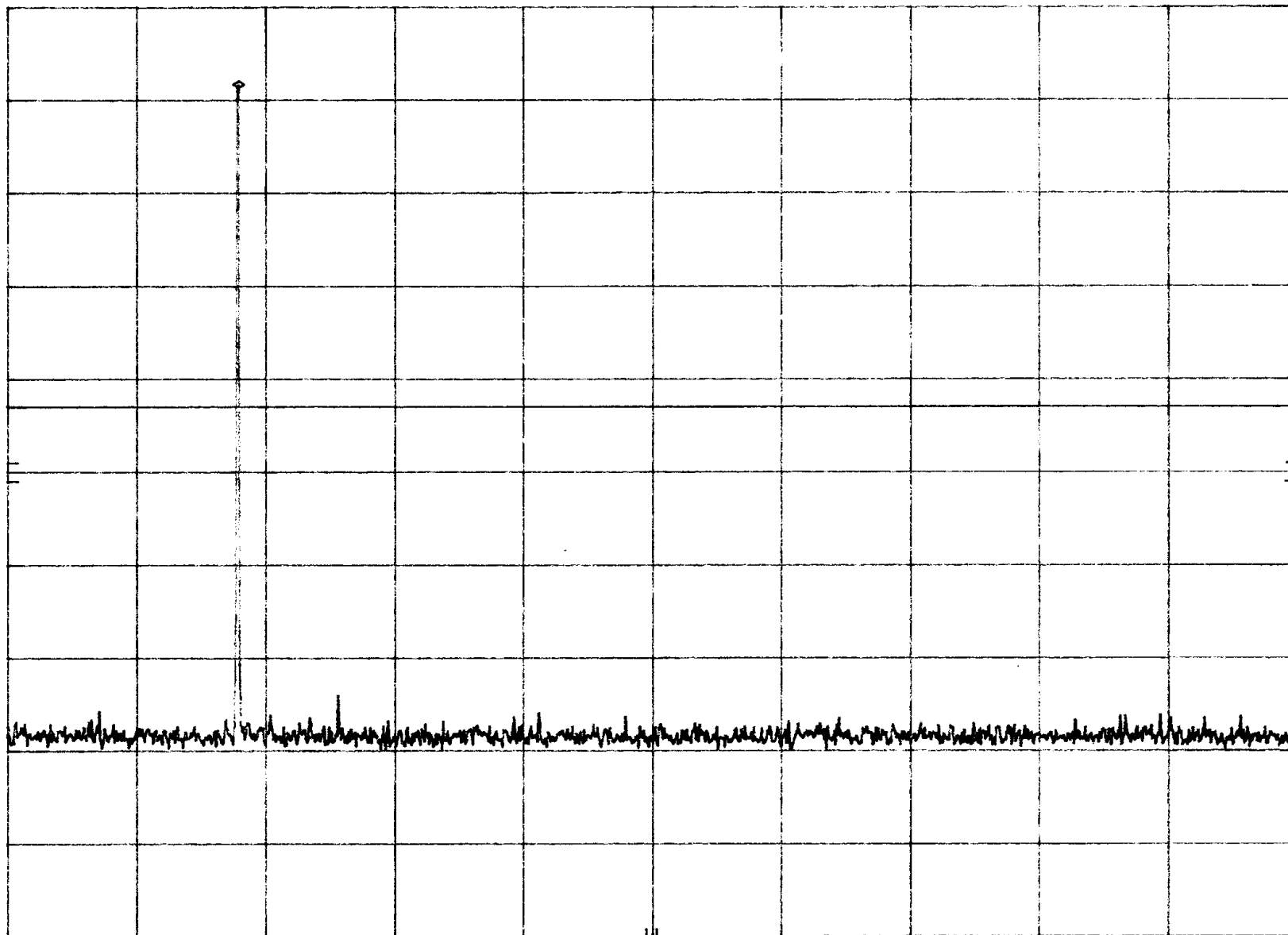
MKR 589.5 MHz
21.70 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

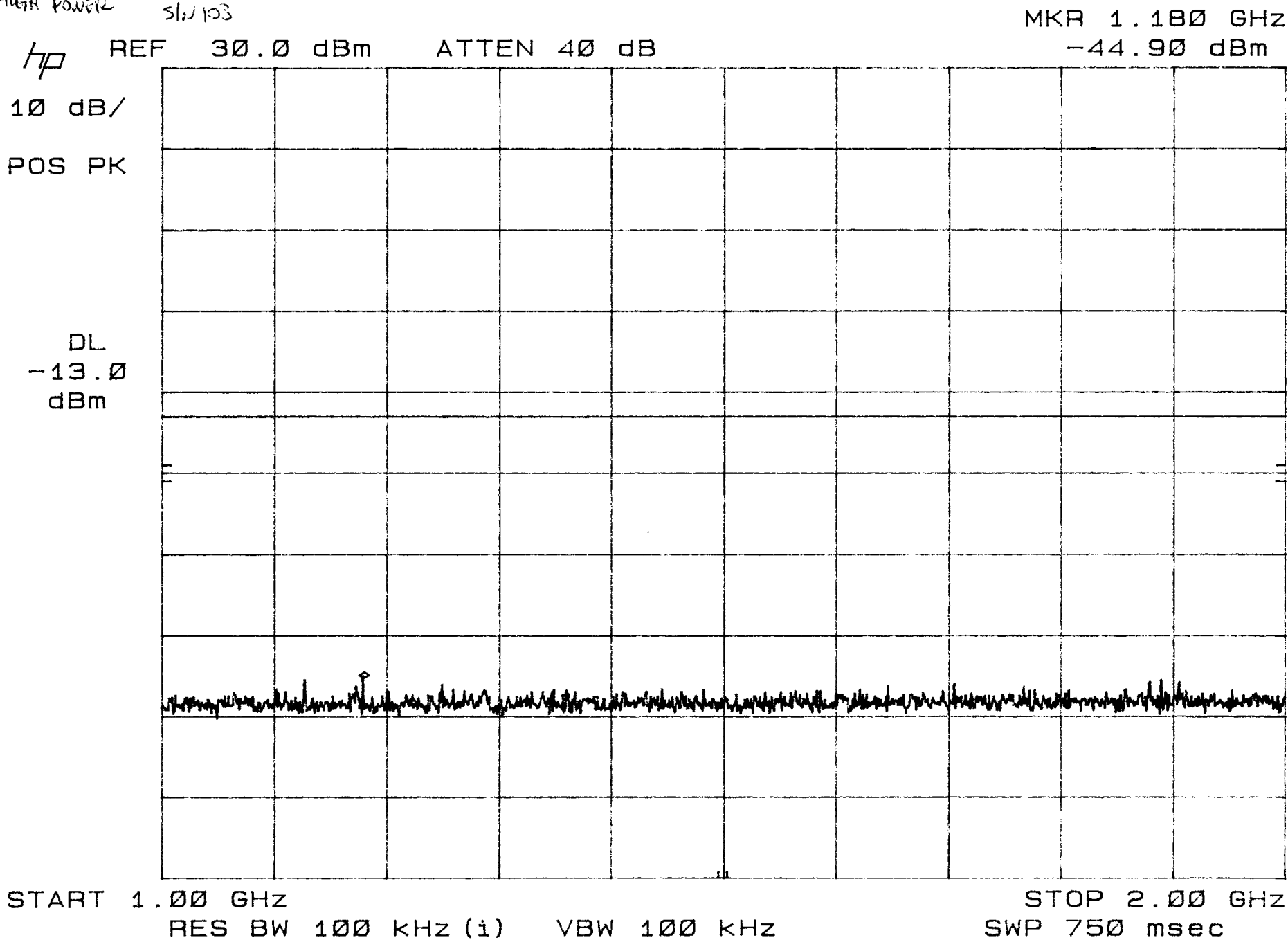
RES BW 100 kHz (i) VBW 100 kHz

STOP 1.000 GHz
SWP 375 msec

104

CONDUCTED SPURIOUS
(LOW) TRANSMIT 590.025 MHz TX3 RX12
HIGH POWER 51.0103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



105

CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

(LOW) TRANSMIT 590.025 MHz Tx 2x12

HP Power SIN103

MKR 2.831 GHz

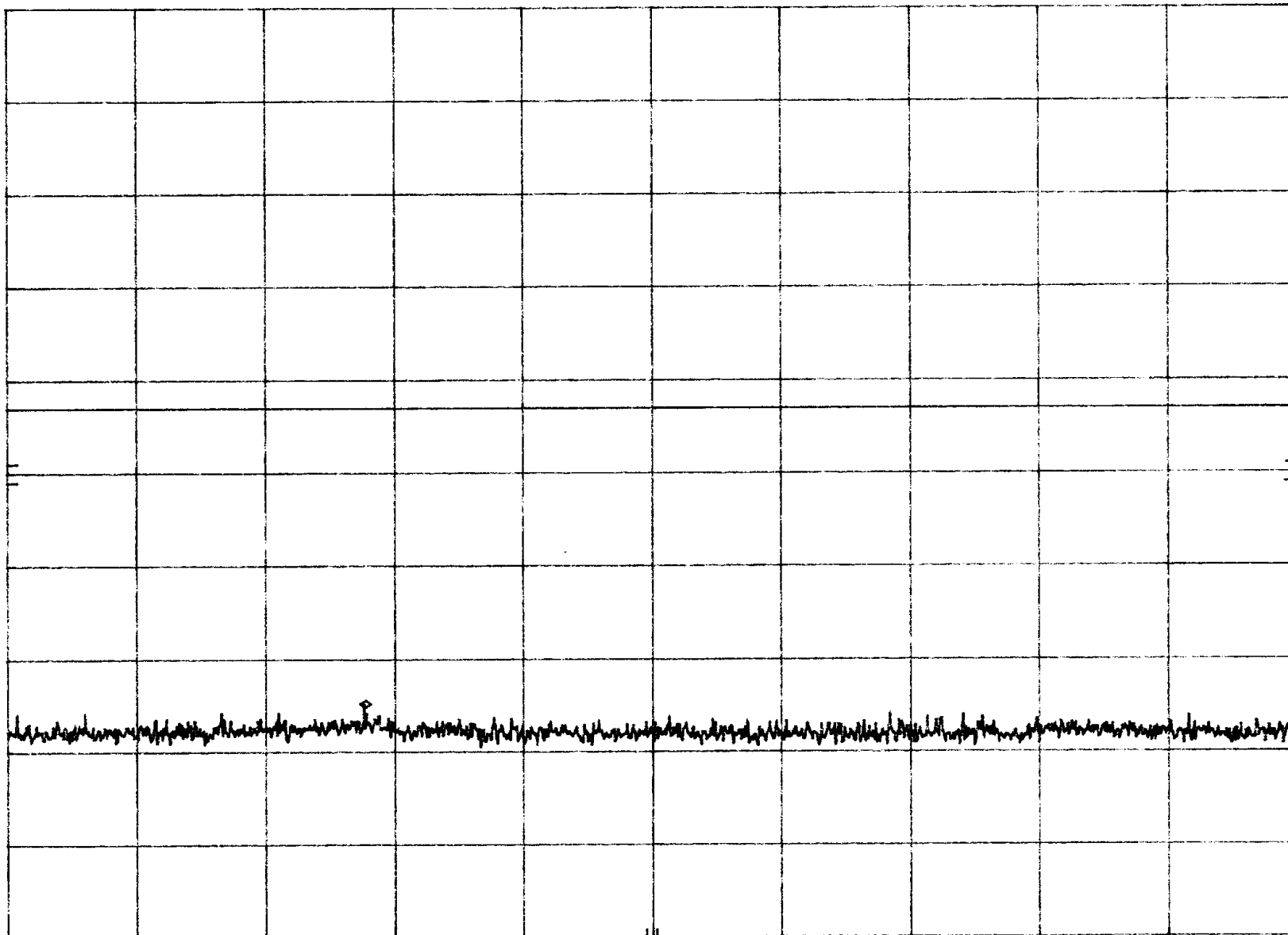
HP REF 30.0 dBm ATTN 40 dB

-44.80 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

STOP 5.00 GHz

RES BW 100 kHz (i) VBW 100 kHz

SWP 2.25 sec

106

LOW CONDUCTED SPURIOUS
 (HIGH) TRANSMIT 50.025 MHz T_x & R_x 12
 HIGH POWER SW103

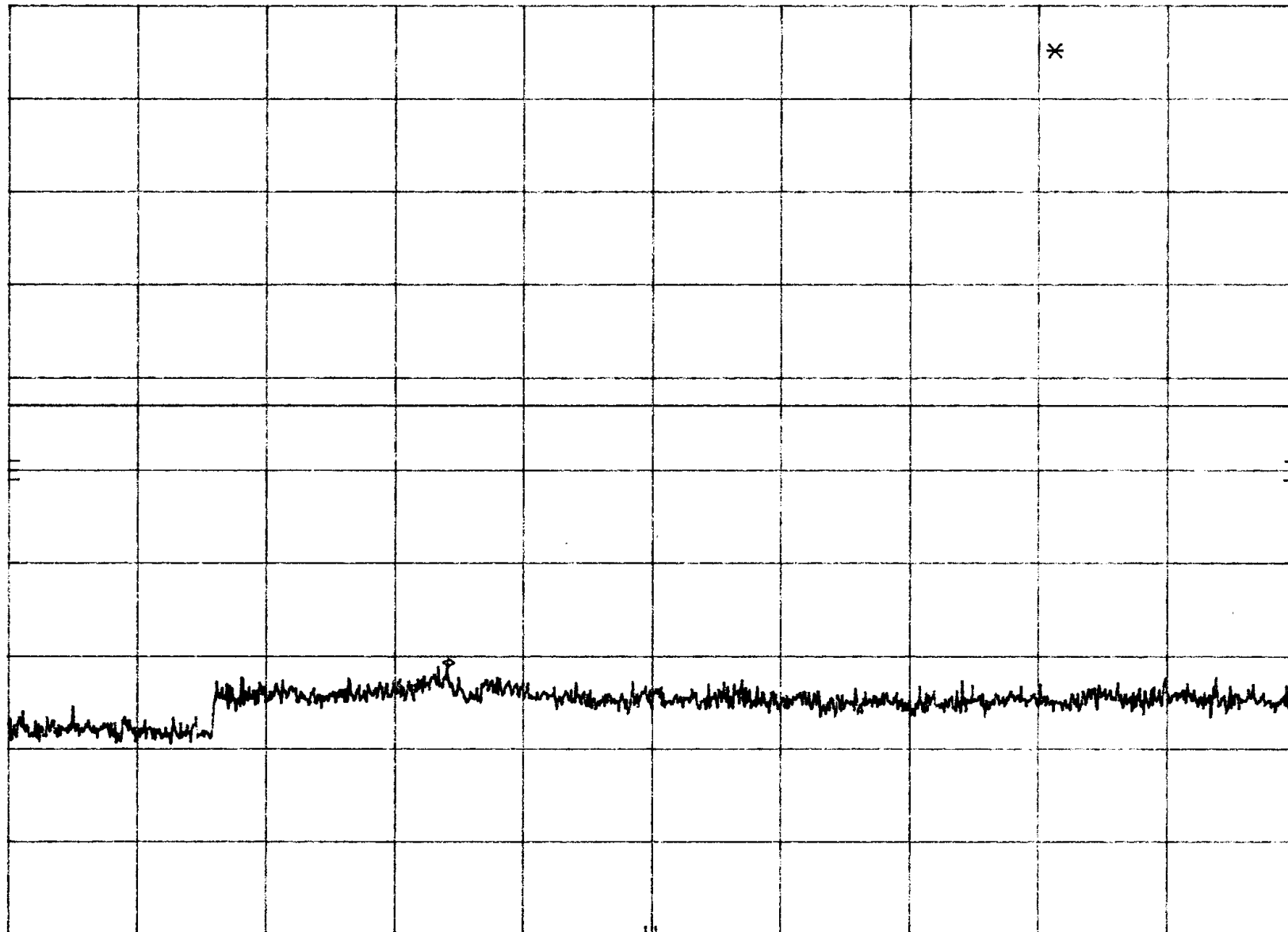
MKR 6.710 GHz
 -40.70 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
 -13.0
 dBm



START 5.00 GHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 10.00 GHz

SWP 3.75 sec

CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

ASSUME HIGH TRANSMIT TX8 RX12
PWR (MID) SIN103

MKR 2.20 MHz

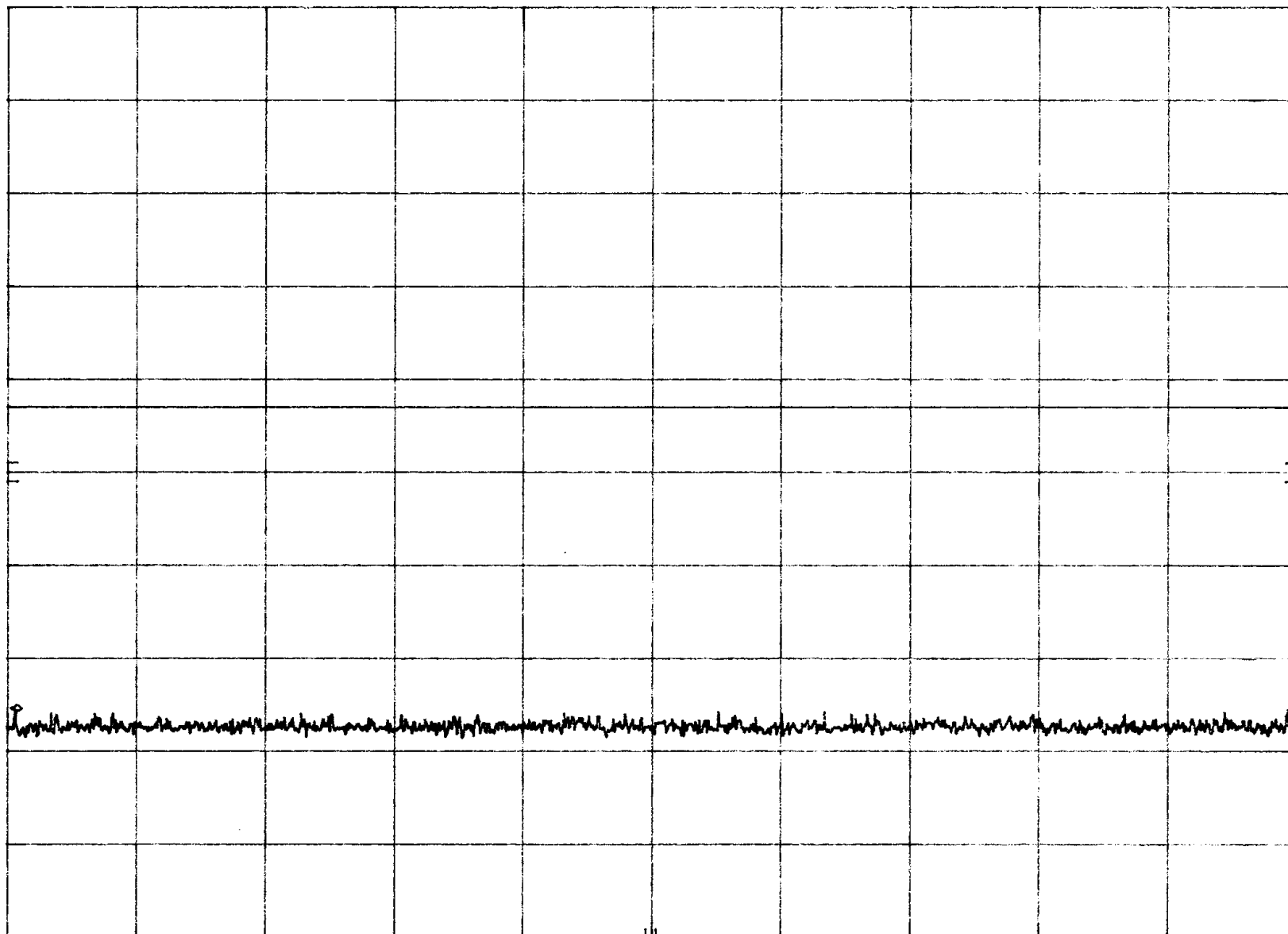
hp REF 30.0 dBm ATTN 40 dB

-45.40 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

STOP 30.0 MHz

RES BW 100 KHz (i) VBW 100 KHz

SWP 21.0 msec

108

CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

66.5 MHz HIGH TRANSDT Tx8 Rx12
AWR (M10) SIN103

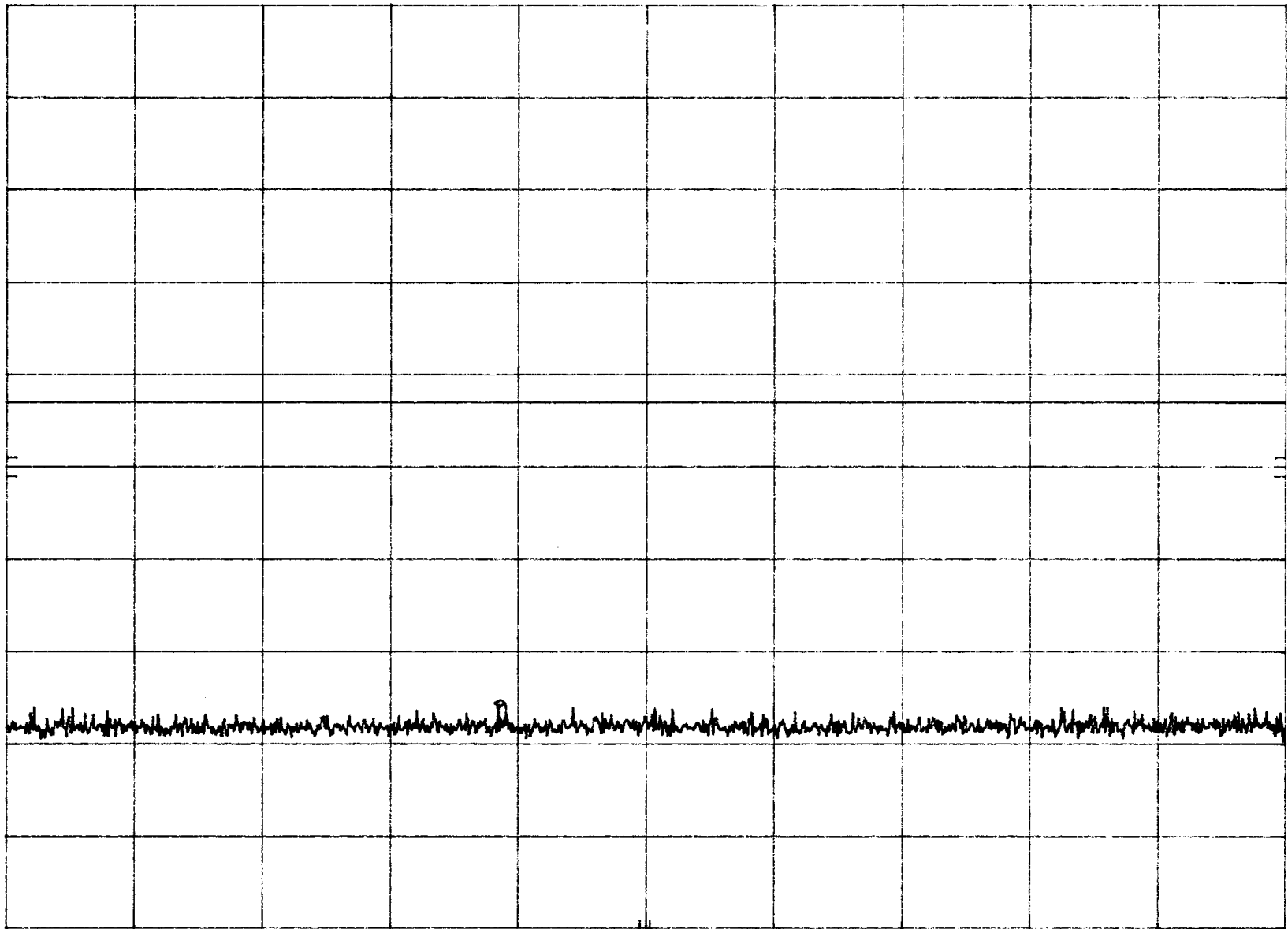
MKR 211.4 MHz
-45.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 500 MHz

SWP 353 msec

109

CONDUCTED SPURIOUS
605MHz HIGH T12M5H1 TX8 KX12
PWR (MIC) SIN103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

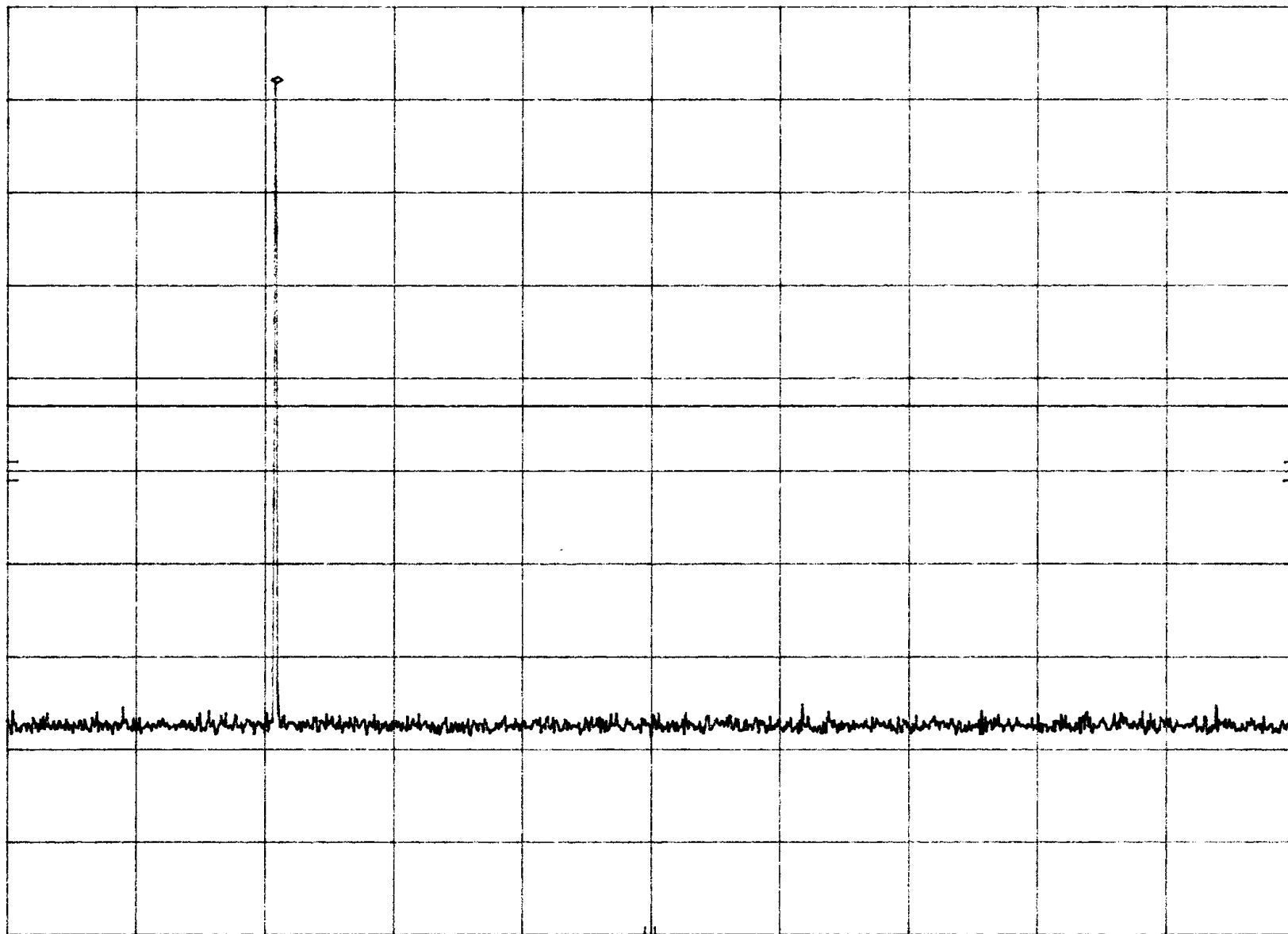
MKR 604.5 MHz
22.10 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 1.000 GHz
SWP 375 msec

CONDUCTED SPURIOUS TX9 Rx12

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

605 MHz HIGH TRANSMIT

POWER (MIP)

SW103

MKR 1.210 GHz

hp

REF 30.0 dBm

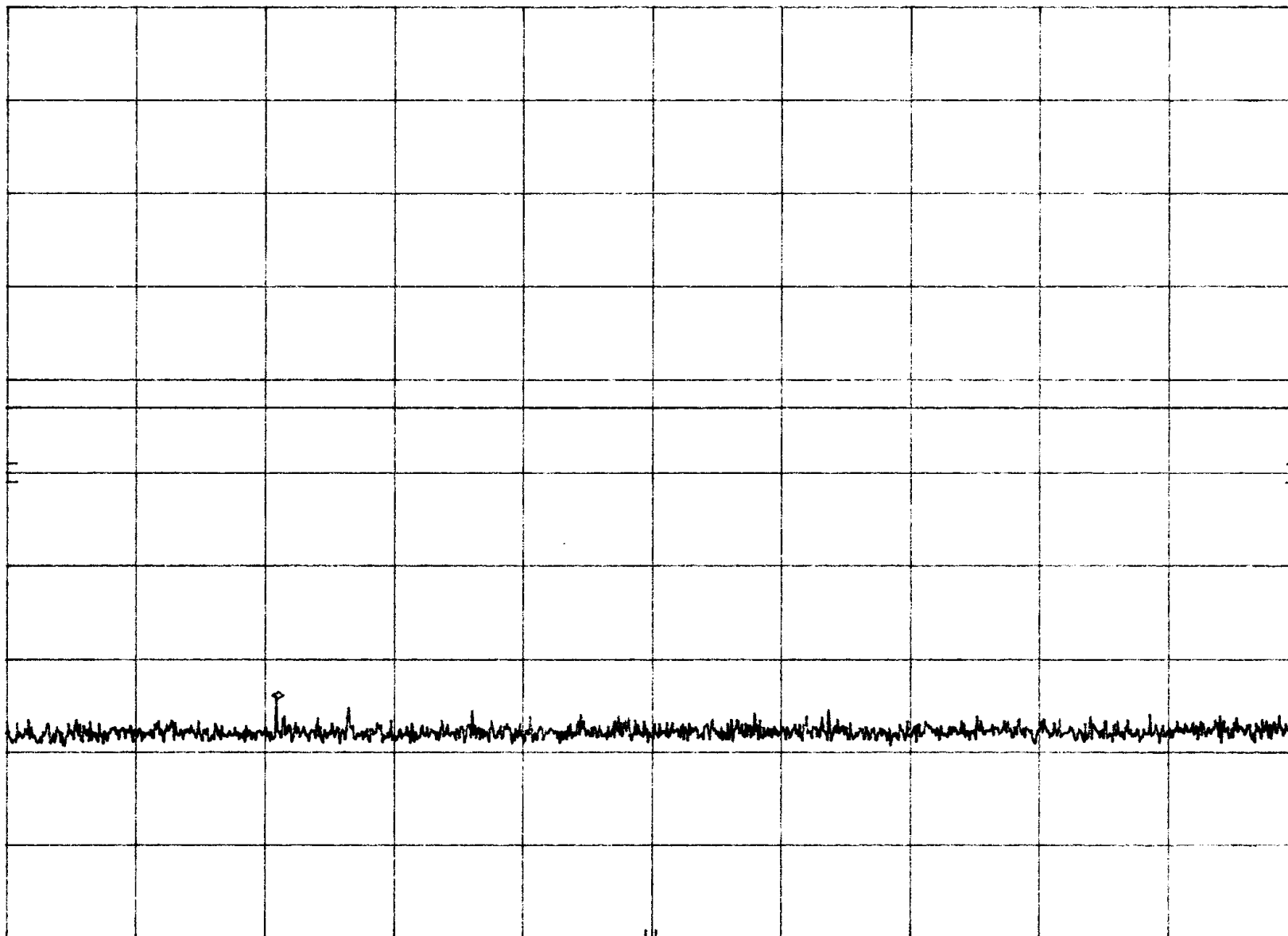
ATTEN 40 dB

-43.90 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 kHz (i)

VBW 100 kHz

STOP 2.00 GHz

SWP 750 msec

111

CONDUCTED SPURIOUS tx8 rx12

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

605 MHz HIGH TRANSMIT

PWR (MIO) SIN103

MKR 2.156 GHz

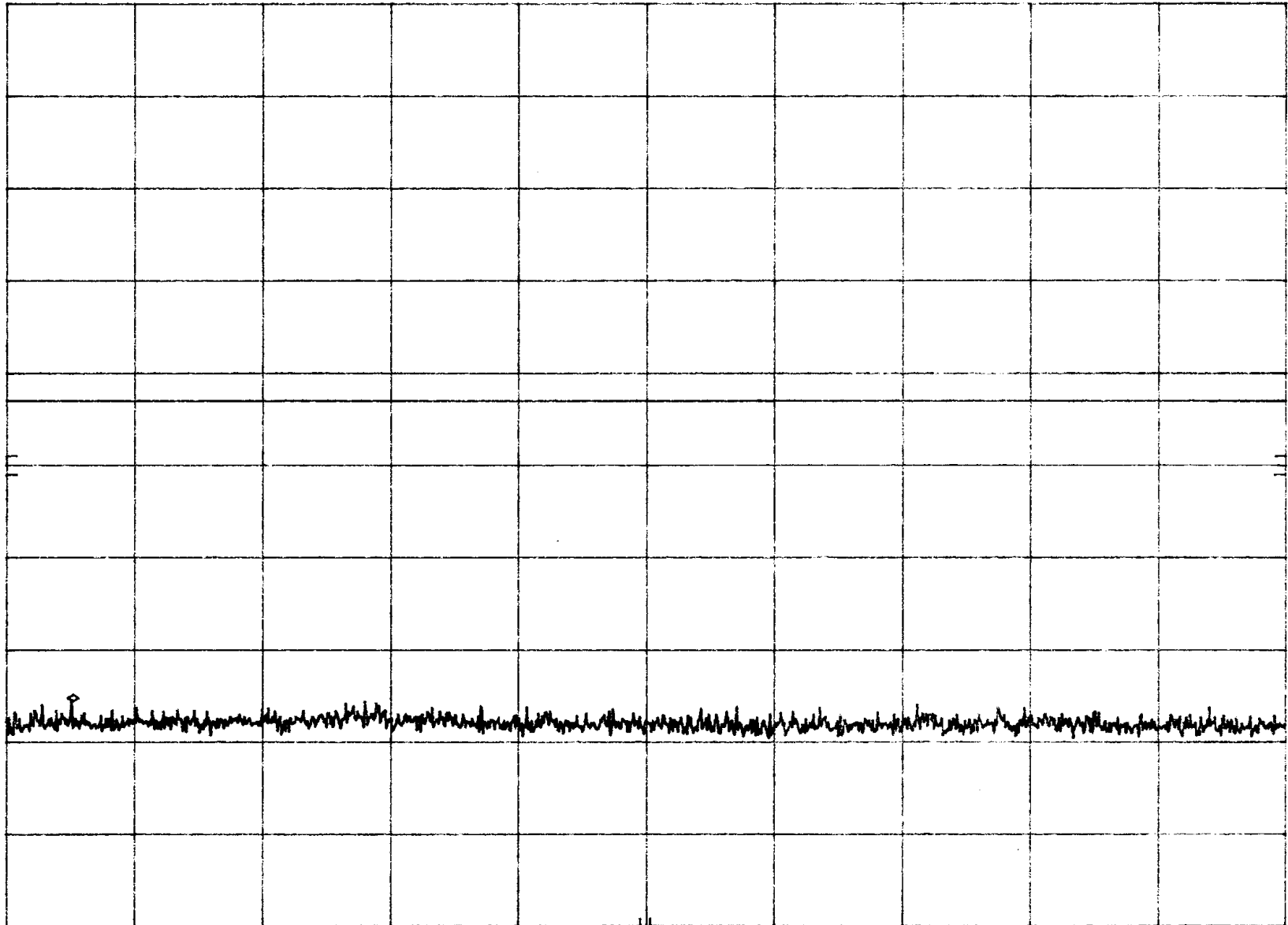
hp REF 30.0 dBm ATTN 40 dB

-45.20 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 5.00 GHz

SWP 2.25 sec

112

CONDUCTED SPURIOUS TX3 RX12

605 MHz HIGH TRANSMIT

PWR MID

SN103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 6.595 GHz

-39.90 dBm

hp

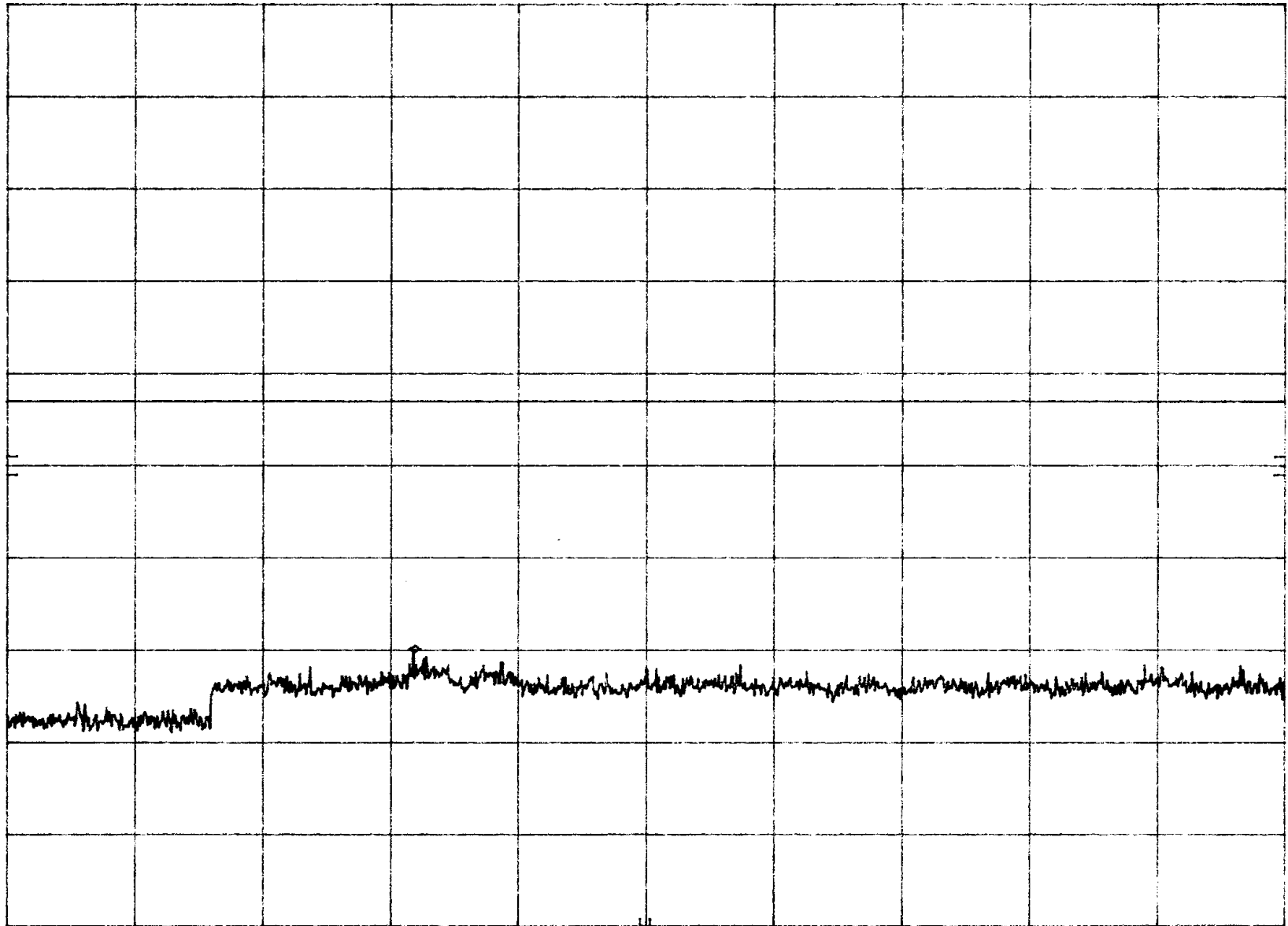
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 10.00 GHz

SWP 3.75 sec

113

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 600 MHz - TX8 R×12
HIGH POWER SIN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

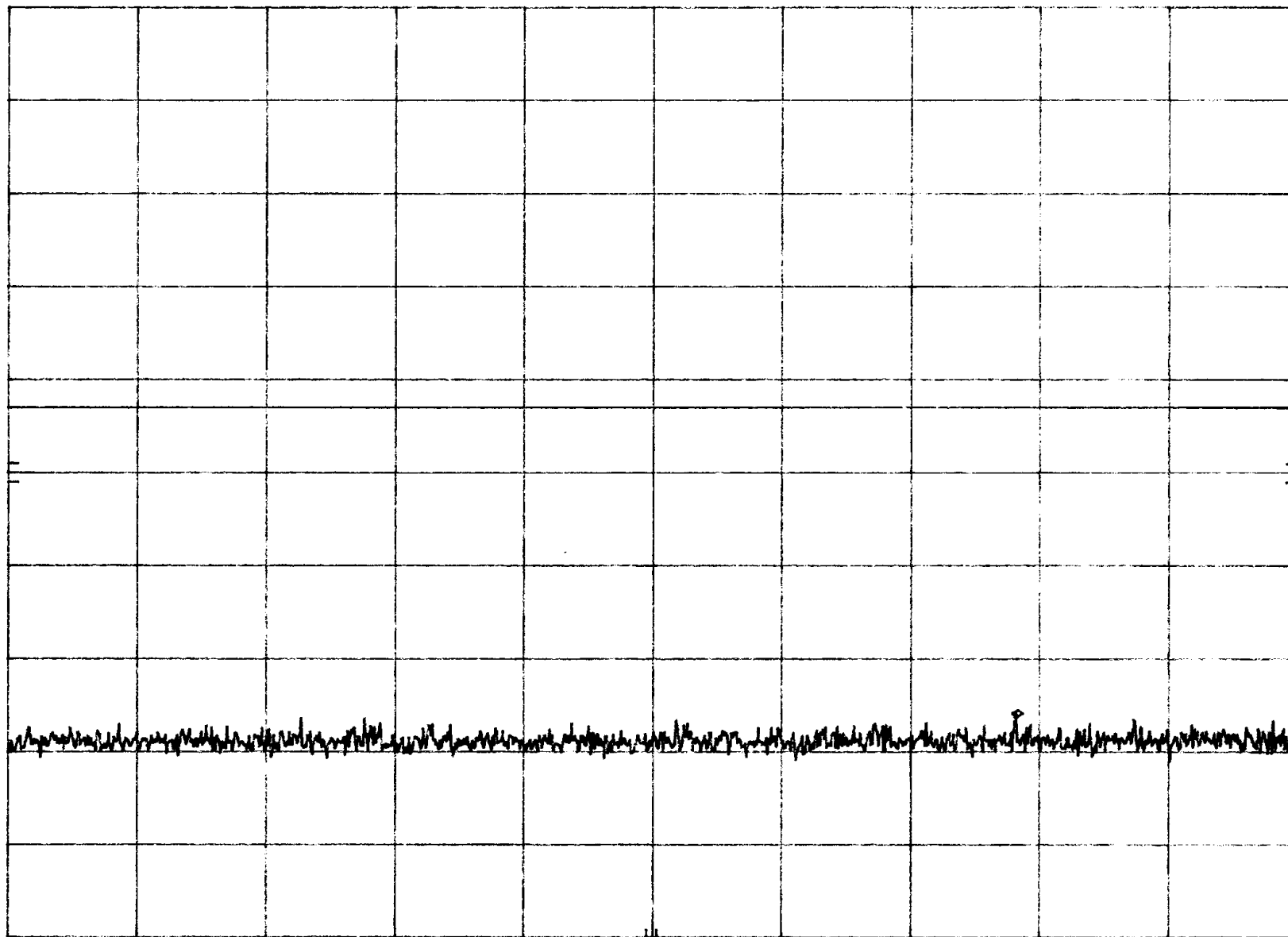
MKR 23.92 MHz
-45.90 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 30.0 MHz

SWP 21.0 msec

114

CONDUCTED SPURIOUS
(14GHz) TRANSMIT 620MHz Tx8 Rx12
HIGH POWER SIN103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

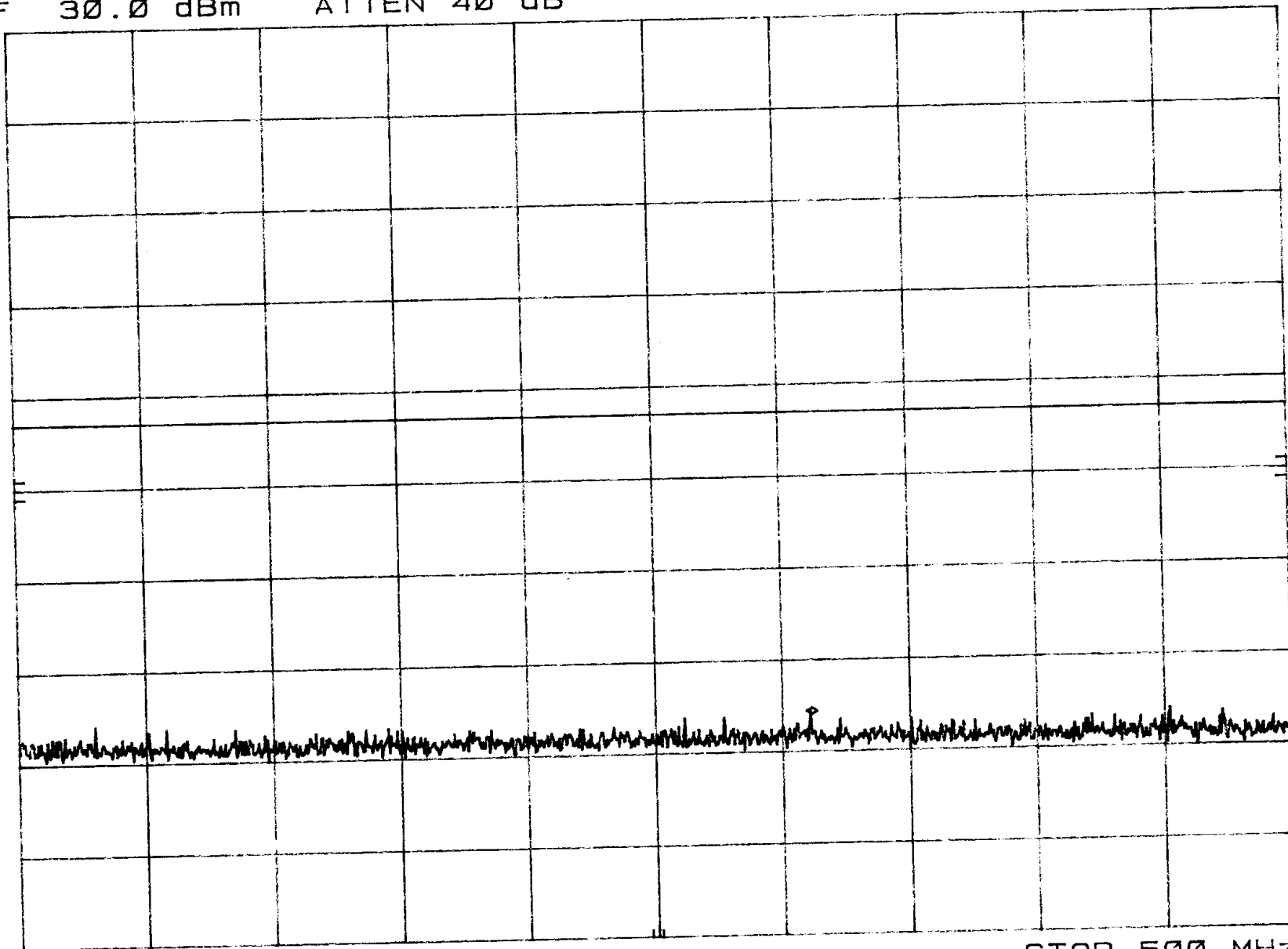
MKR 322.8 MHz
-45.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 kHz (i)

VBW 100 kHz

STOP 500 MHz

SWP 353 msec

115

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 600 MHz TX 2x12
HIGH POWER SIN 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 619.5 MHz

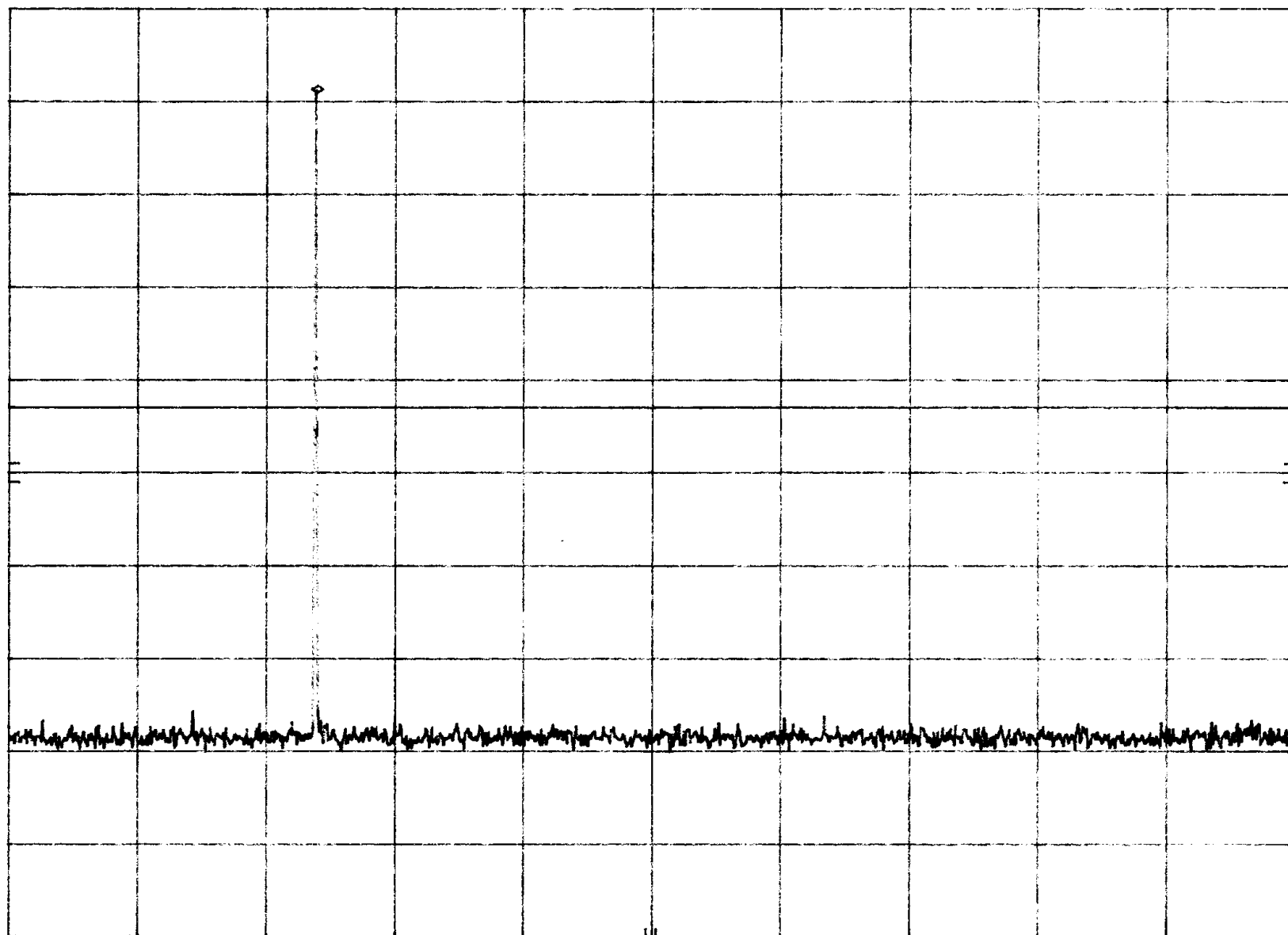
hp REF 30.0 dBm ATTEN 40 dB

21.30 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 1.000 GHz

SWP 375 msec

116

CONDUCTED SPURIOUS

(HIGH) TRANSMITTER 620 MHz TX8 R12 FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

HIGH POWER SIN 103

MKR 1.621 GHz

-45.60 dBm

HP

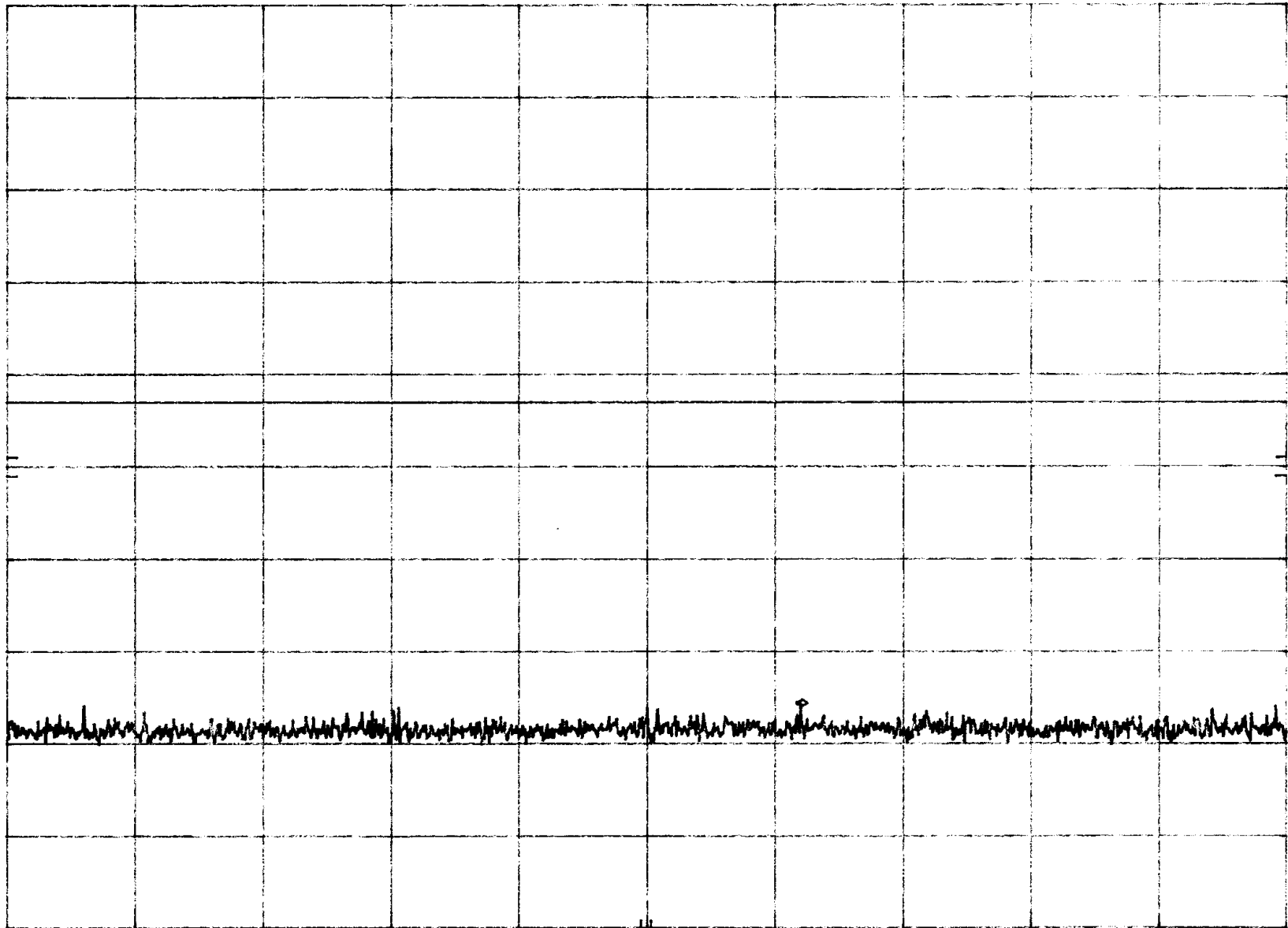
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

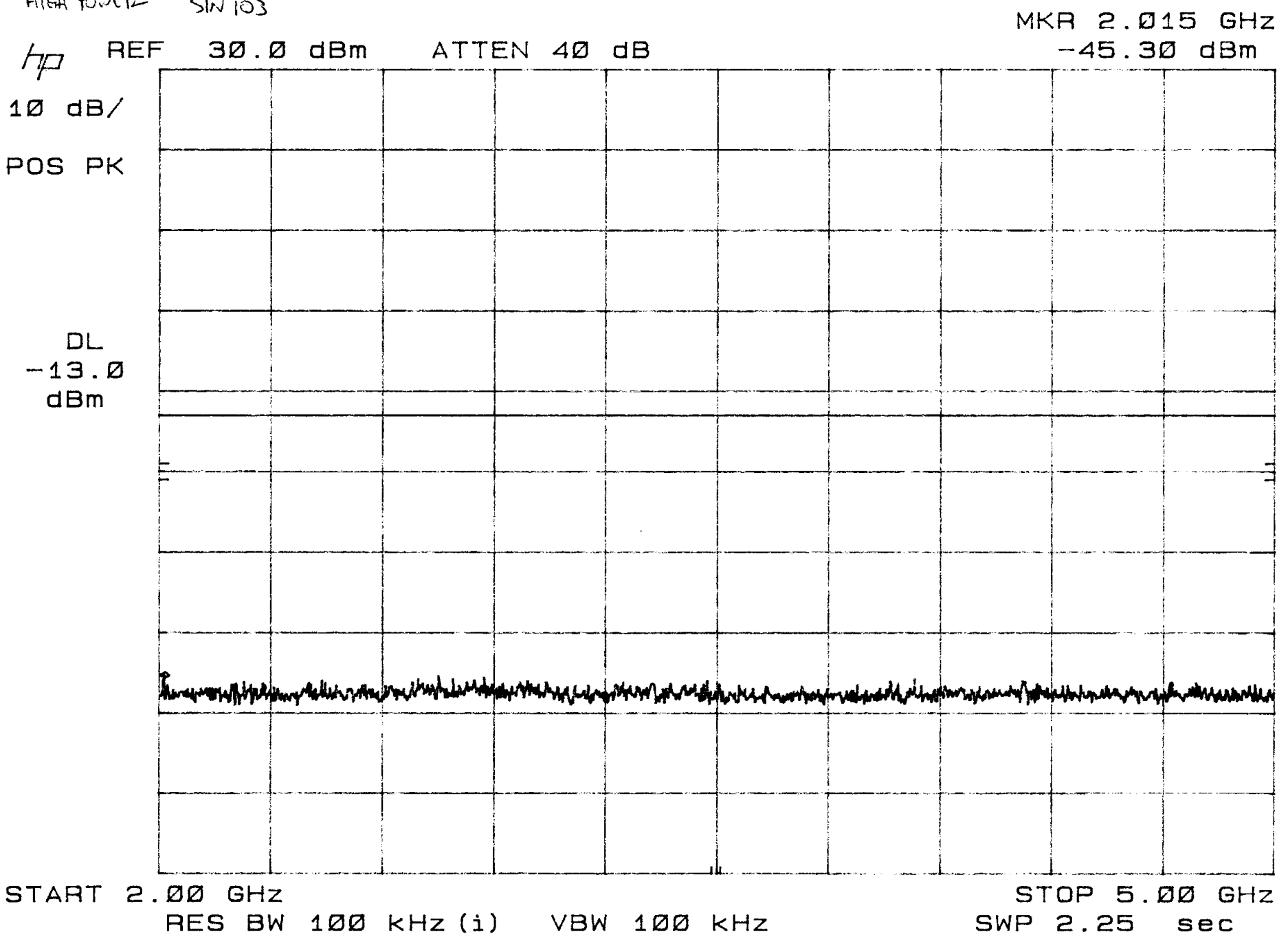
RES BW 100 KHz (i) VBW 100 KHz

STOP 2.00 GHz

SWP 750 msec

CONDUCTED SPURIOUS
(HIGH) TRANSMIT 600 MHz TR8 Rx12
HIGH POWER SW 103

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS

FCC PART 2, PAR. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

(HIGH) TRANSMIT 600 MHz TR 8 P12

HIGH POWER 5N103

hp

REF

30.0 dBm

ATTEN 40 dB

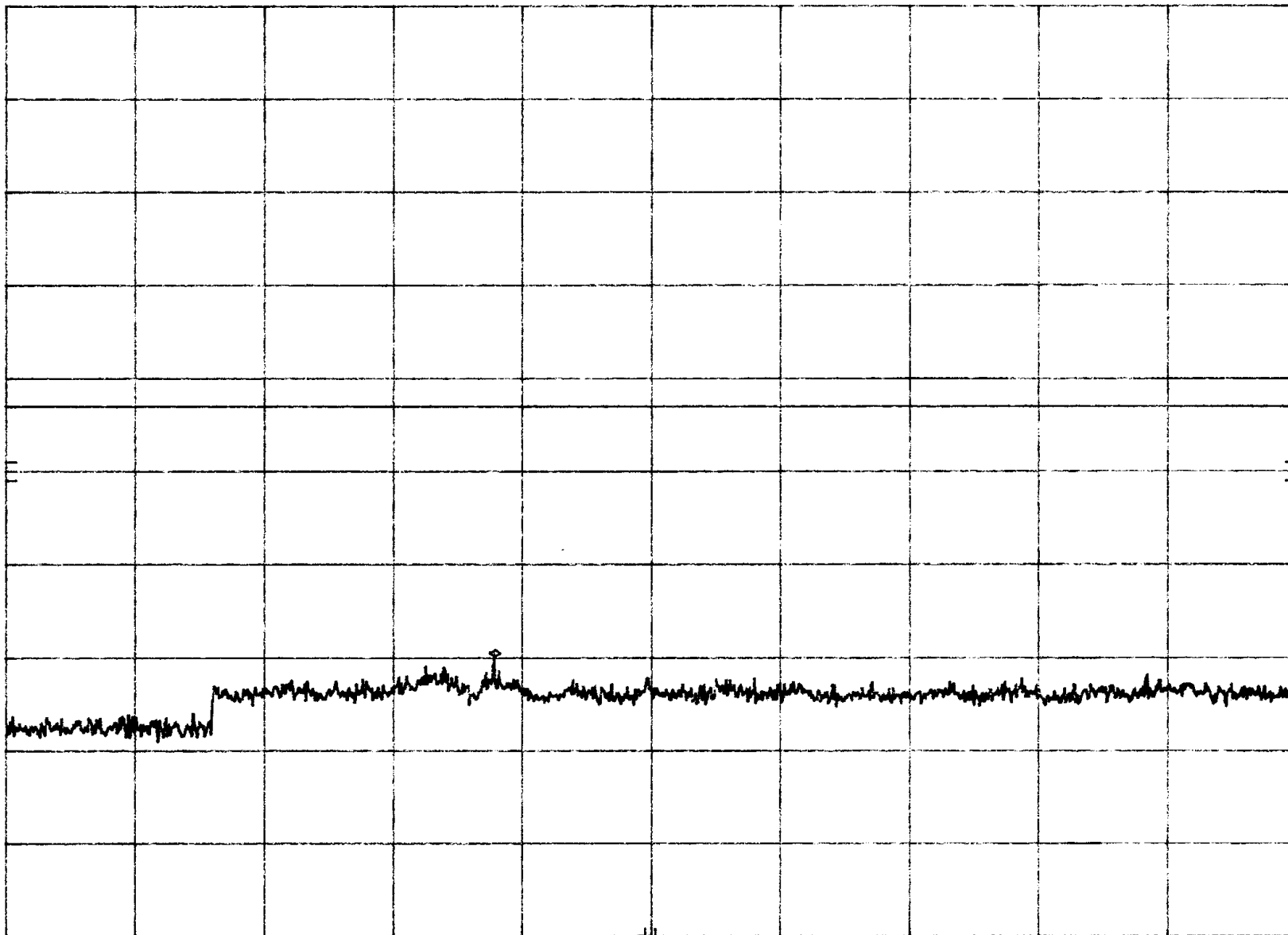
MKR 6.895 GHz

-39.50 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 KHz (i) VBW 100 KHz

STOP 10.00 GHz

SWP 3.75 sec

119

REPORT No: s1010 TESTED BY: Rodel Resolme SPEC: FCC PART 2, PAR. 2.1053

CUSTOMER: VEGA Wireless

TEST DIST: 3 Meters

Radiated Spurious

E U T: Q700 Master Station Receivers & Transmitter

TEST SITE: 3

EUT MODE: transmit

BICONICAL: N/A

DATE: 2-Feb-01

LOG: N/A

NOTES: Duty Cycle= 100%

OTHER: 251

115VAC 60Hz

Low Power (low) 590.025Mhz

s/n 103

v.beta2

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotatio	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
590.025	75.9	75.9	77.3	77.3	33.2	110.5	####			111	111	110	1.5	
1180	8.5	8.5	7.3	7.3	27.1	35.6	35.6			35.6	36			
1770	4.9	4.9	4.8	4.8	30.3	35.2	35.2			35.2	35			
2360	5.8	5.8	5.3	5.3	33.8	39.6	39.6			39.6	40			
2950	4.8	4.8	4.2	4.2	36.3	41.1	41.1			41.1	41			
590.025	81	81	82.2	82.2	33.2	115.4	####			115	115	108	1.5	High Power (low) 590.025Mhz
1180	15.1	15.1	13.4	13.4	27.1	42.2	42.2			42.2	42	230	1.3	
1770	4	4	4	4	30.3	34.3	34.3			34.3	34			
2360	4.4	4.4	5	40	33.8	38.8	73.8			38.8	74			
2950	3.9	3.9	3.3	3.3	36.3	40.2	40.2			40.2	40			
605	77.7	77.7	79.9	79.9	33.2	113.1	####			113	113	23	1.5	Low Power (mid) 605Mhz
1210	11.2	11.2	14.9	14.9	27.0	41.9	41.9			41.9	42	51	1	
1815	7	7	6.6	6.6	30.2	37.2	37.2			37.2	37			
2420	5	5	5	5	33.7	38.7	38.7			38.7	39			
3025	5	5	4.8	4.8	38.0	43.0	43.0			43	43			
605	83	83	84.8	84.8	33.2	118.0	####			118	118	114	1.5	High Power (mid) 605Mhz
1210	15.1	15.1	24	24	27.0	51.0	51.0			51	51	40	1.4	
1815	5.7	5.7	7.4	7.4	30.2	37.6	37.6			37.6	38			
2420	5.5	5.5	6	6	33.7	39.7	39.7			39.7	40			
3025	6.9	6.9	5.2	5.2	38.0	44.9	44.9			44.9	45			
620	74.7	74.7	77	77	33.2	110.2	####			110	110	37	1.5	Low Power (high) 620Mhz
1240	9.4	9.4	11.1	11.1	26.9	38.0	38.0			38	38	27	1.4	
1860	10	10	6	6	30.1	40.1	40.1			40.1	40			
2480	7	7	6	6	33.6	40.6	40.6			40.6	41			
3100	5	5	6.3	6.3	37.9	44.2	44.2			44.2	44			
3720	4.1	4.1	5.5	5.5	39.9	45.4	45.4			45.4	45			
4340	8.8	8.8	7.8	7.8	42.2	51.0	51.0			51	51	8	1.5	
620	79.8	79.8	82.2	82.2	33.2	115.4	####			115	115	32	1.3	High Power (high)620Mhz
1240	14	14	19.1	19.1	26.9	46.0	46.0			46	46	43	1.4	
1860	8	8	8	8	30.1	38.1	38.1			38.1	38			
2480	7	7	6	6	33.6	40.6	40.6			40.6	41			
3100	7	7	5.2	5.2	37.9	44.9	44.9			44.9	45			
3720	6	6	6	6	39.9	45.9	45.9			45.9	46			
4340	10	10	8	8	42.2	52.2	52.2			52.2	52	355	1.3	

TEST DIST: 3 Meters

E U T: Q700 Master Station Receivers & Transmitter TEST SITE: 3

EUT MODE: transmit BICONICAL: N/A

DATE: 2-Feb-01 LOG: N/A

NOTES: Duty Cycle= 100% OTHER: 251

115VAC 60Hz

Low Power (low) 590.025Mhz

s/n 103

v.beta2

[illegible]

Radiated Sparrows

Vega Wireless Masterstation - 605.000MHz Reference

February 12, 2001

TUV Product Service - San Diego

"05:03:03",-1536,-31.91
"05:04:08",-1216,-31.91
"05:05:12",-1088,-31.98
"05:06:17",-960,-32.01
"05:07:22",-832,-31.99
"05:08:26",-832,-31.98
"05:09:31",-896,-32.03
"05:10:36",-832,-31.91
"05:11:41",-640,-32.08
"05:12:46",-704,-32.03
"06:13:00",-2944,-22.823
"06:14:05",-2368,-22.826
"06:15:10",-2048,-22.815
"06:16:15",-1600,-22.876
"06:17:19",-1280,-22.824
"06:18:24",-1088,-22.814
"06:19:29",-1024,-22.806
"06:20:34",-960,-22.817
"06:21:38",-960,-22.818
"06:22:43",-768,-22.818
"07:22:58",-1216,-13.291
"07:24:03",-1024,-13.31
"07:25:08",-768,-13.304
"07:26:12",-832,-13.315
"07:27:17",-640,-13.336
"07:28:22",-448,-13.29
"07:29:26",-320,-13.326
"07:30:31",-64,-13.298
"07:31:36",512,-13.286
"07:32:41",640,-13.305
"08:32:56",-384,-3.744
"08:34:00",0,-3.73
"08:35:05",576,-3.731
"08:36:10",576,-3.69
"08:37:15",576,-3.697
"08:38:19",576,-3.656
"08:39:24",512,-3.66
"08:40:29",448,-3.672
"08:41:34",320,-3.66
"08:42:38",320,-3.657
"09:42:53",576,5.658
"09:43:58",512,5.685

"09:45:03", 320, 5.695
"09:46:08", 64, 5.689
"09:47:12", 0, 5.687
"09:48:17", -128, 5.657
"09:49:22", -192, 5.71
"09:50:27", -448, 5.705
"09:51:31", -320, 5.721
"09:52:36", -448, 5.807
"10:52:51", -64, 14.686
"10:53:56", -320, 14.714
"10:55:01", -320, 14.766
"10:56:05", -704, 14.762
"10:57:10", -704, 14.76
"10:58:15", -896, 14.728
"10:59:19", -896, 14.762
"11:00:24", -1152, 14.781
"11:01:29", -1216, 14.821
"11:02:34", -1344, 14.849
"12:02:48", 704, 26.274
"12:03:53", -1472, 26.303
"12:04:58", 384, 26.317
"12:06:03", -6208, 26.306
"12:07:07", -1216, 26.383
"12:08:12", -1600, 26.367
"12:09:17", -1600, 26.39
"12:10:22", -1792, 26.421
"12:11:26", -1728, 25.742
"12:12:31", -1984, 25.273
"13:12:46", -2240, 35.91
"13:13:51", -4480, 35.89
"13:14:55", 256, 35.89
"13:16:00", -2624, 35.89
"13:17:05", -4352, 35.87
"13:18:10", -4736, 35.88
"13:19:14", -2624, 35.87
"13:20:19", -4864, 35.87
"13:21:24", -3072, 35.89
"13:22:29", -5056, 35.89
"14:22:43", 2944, 45.66
"14:23:48", -5952, 45.62
"14:24:53", -2368, 45.65
"14:25:58", -2176, 45.67
"14:27:02", -2560, 45.7
"14:28:07", -2240, 45.7
"14:29:12", -2240, 45.7
"14:30:17", -2304, 45.74

vega4.txt

FCC PART 2, PAR. 2.1055 AND PART 74, PARA. 74.861(e)(4)

"14:31:22",-2368,45.71

"14:32:26",-2176,45.73