

PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 22

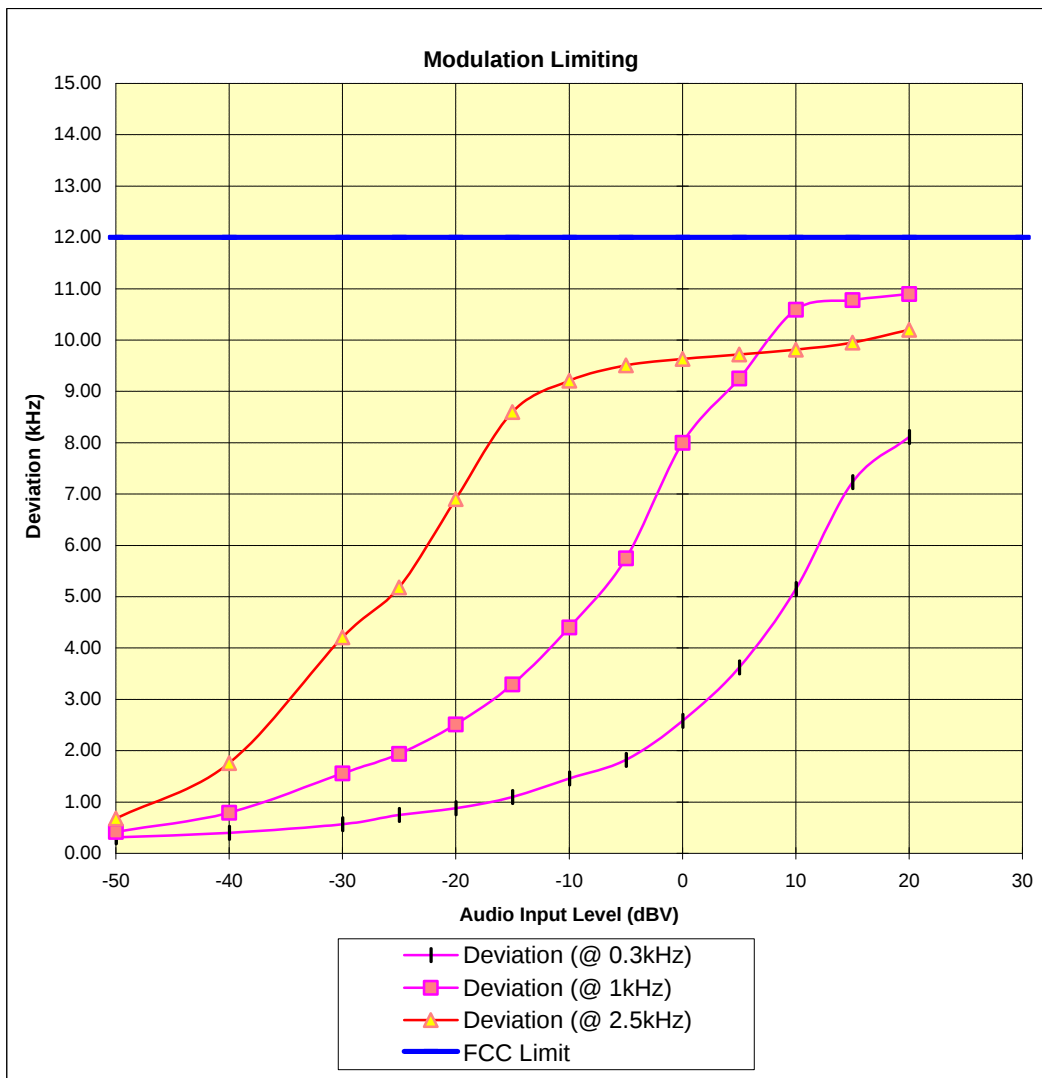
Test Report No.: 22.981221843.CKL
Test Date: 12.22.1998

EUT: HYUNDAI Dual Mode Cellular Phone (AMPS/CDMA)

Model: HGC-200D

FCC ID: CKLHGC-200D

MODE: Audio 1V = 0dB @ 2.5 kHz



HYUNDAI Dual Mode Cellular Phone (AMPS/CDMA)
FCC ID: CKLHGC-200D

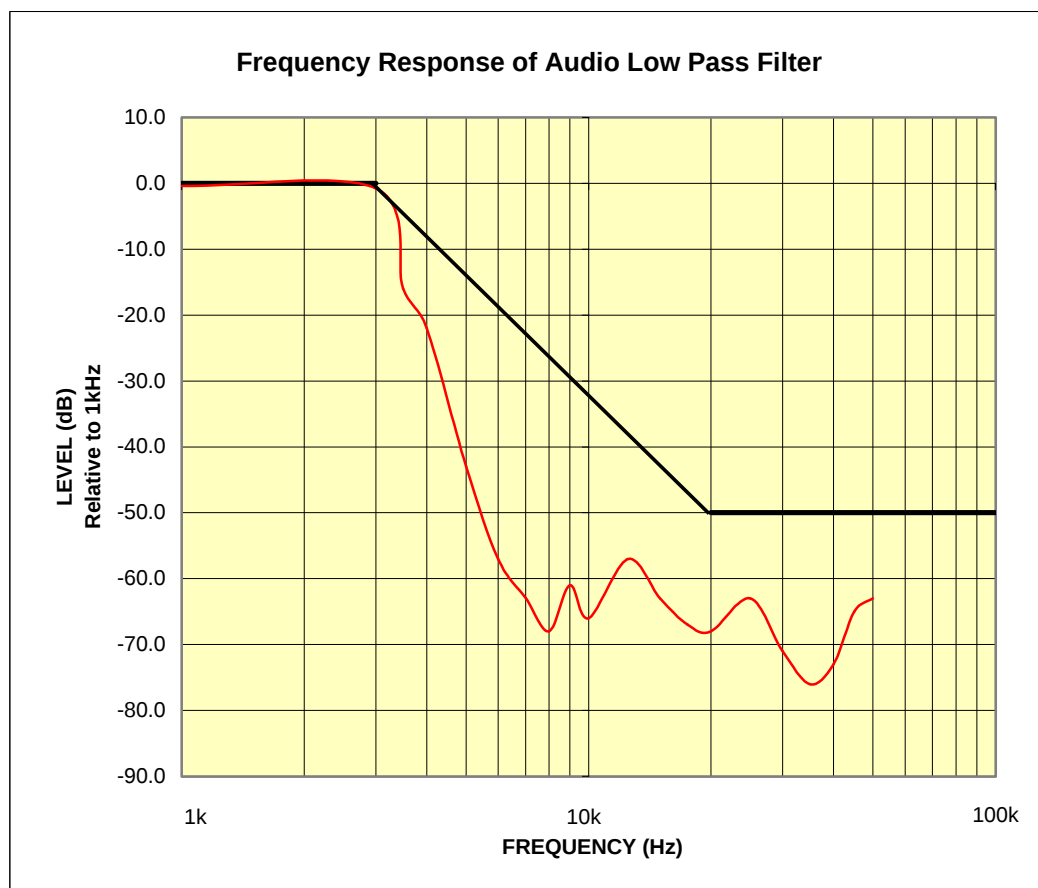
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FCC ID: CKLHGC-200D

REFERENCE: 1 kHz = 0 dB



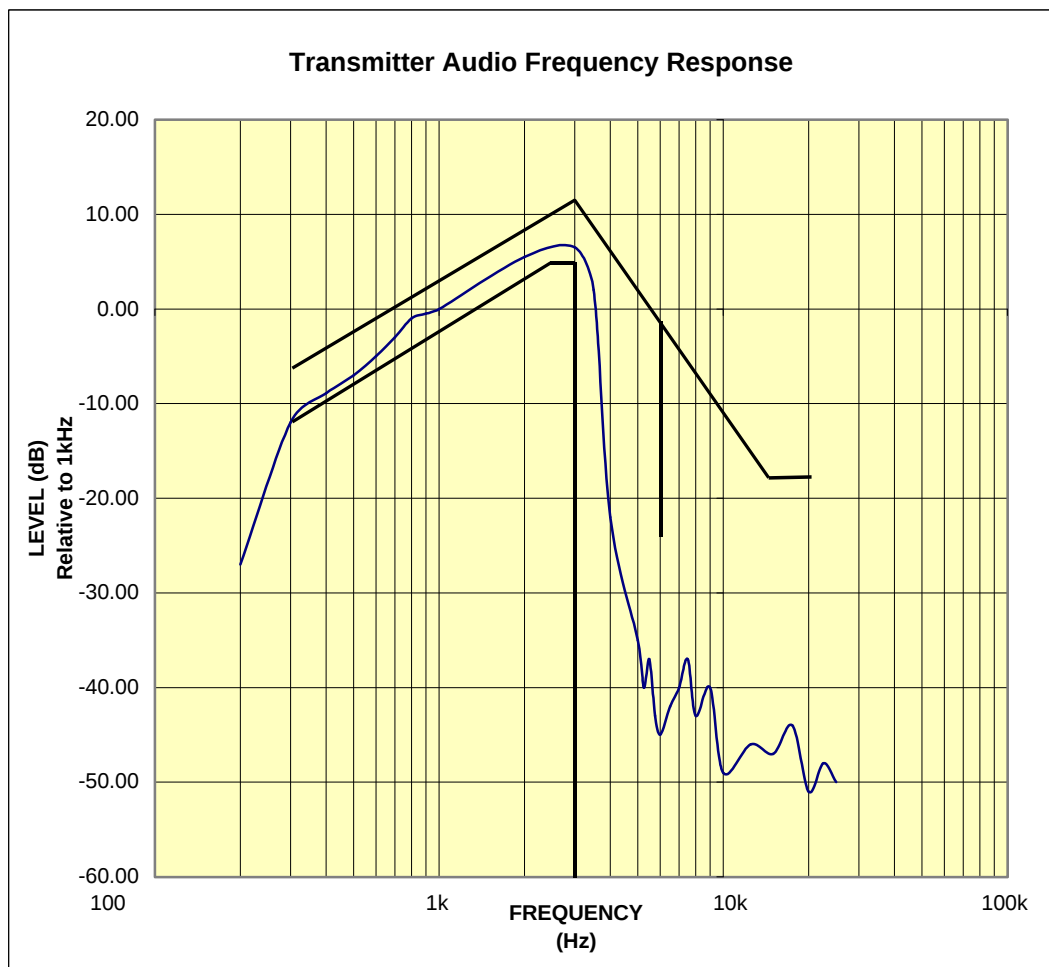
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HYUNDAI Dual Mode Cellular Phone (AMPS/CDMA)
FCC ID: CKLHGC-200D

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-200D

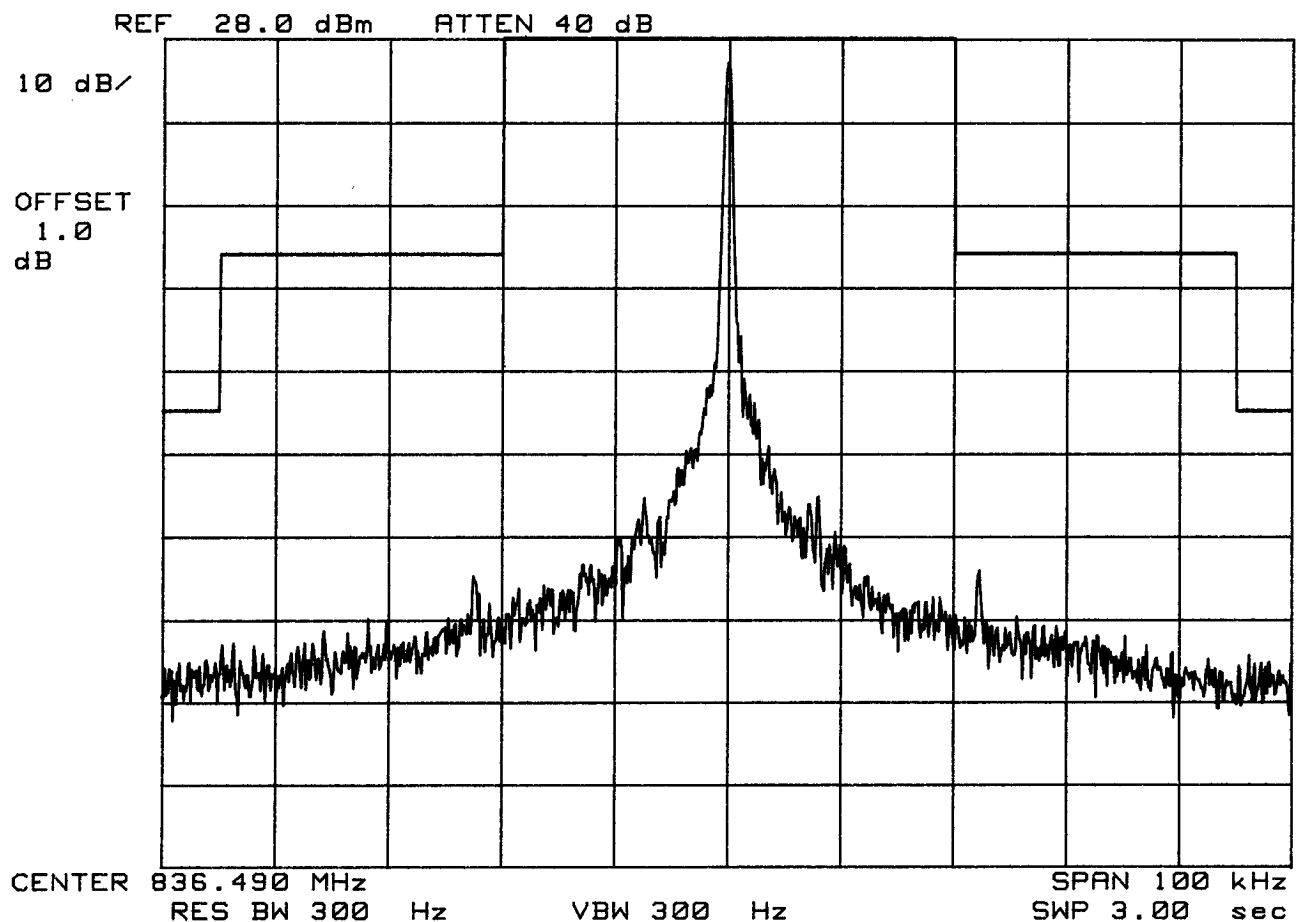
CHAN 383

DUAL MODE PHONE

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-200D

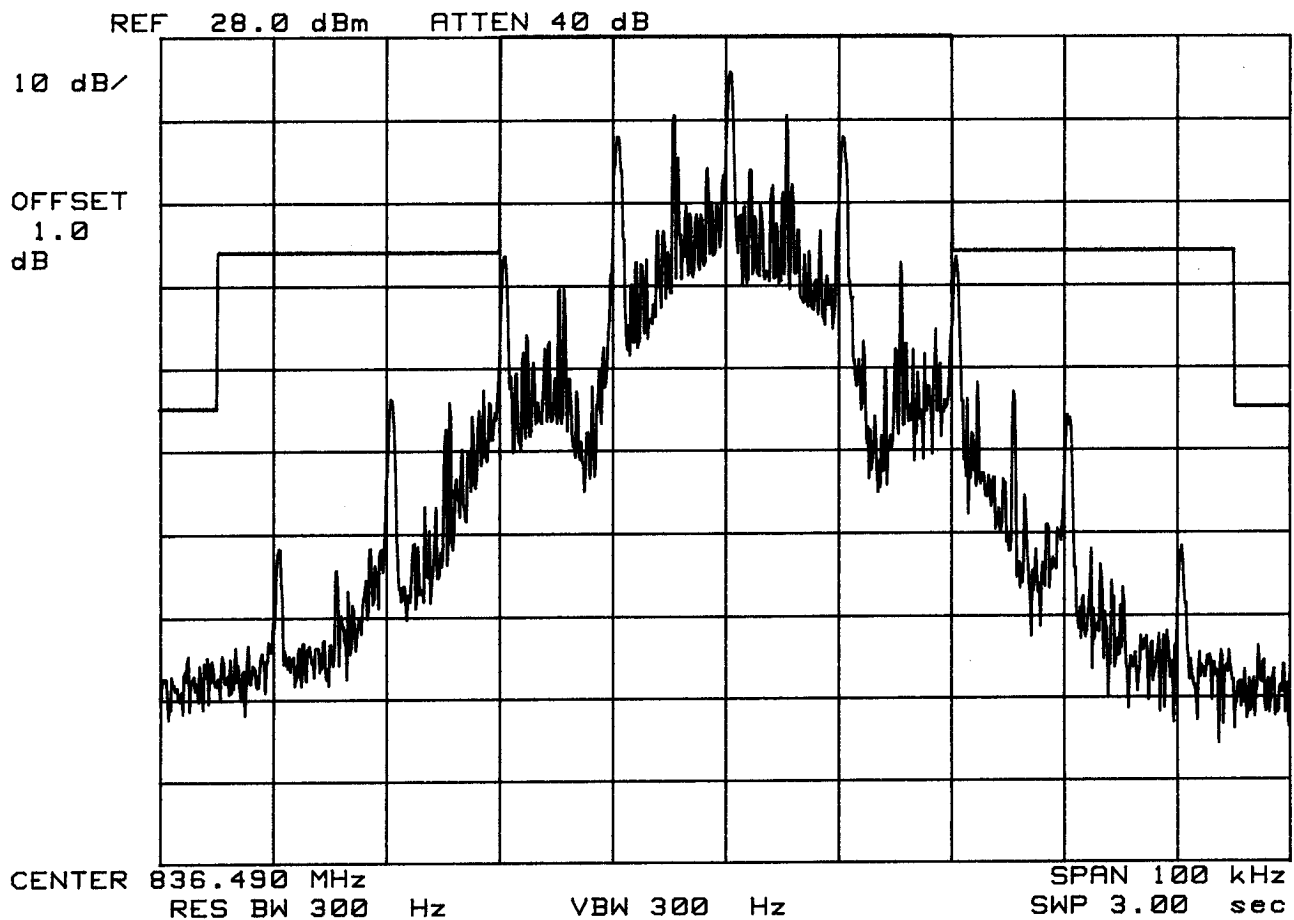
CHAN 383

DUAL MODE PHONE

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGG200D

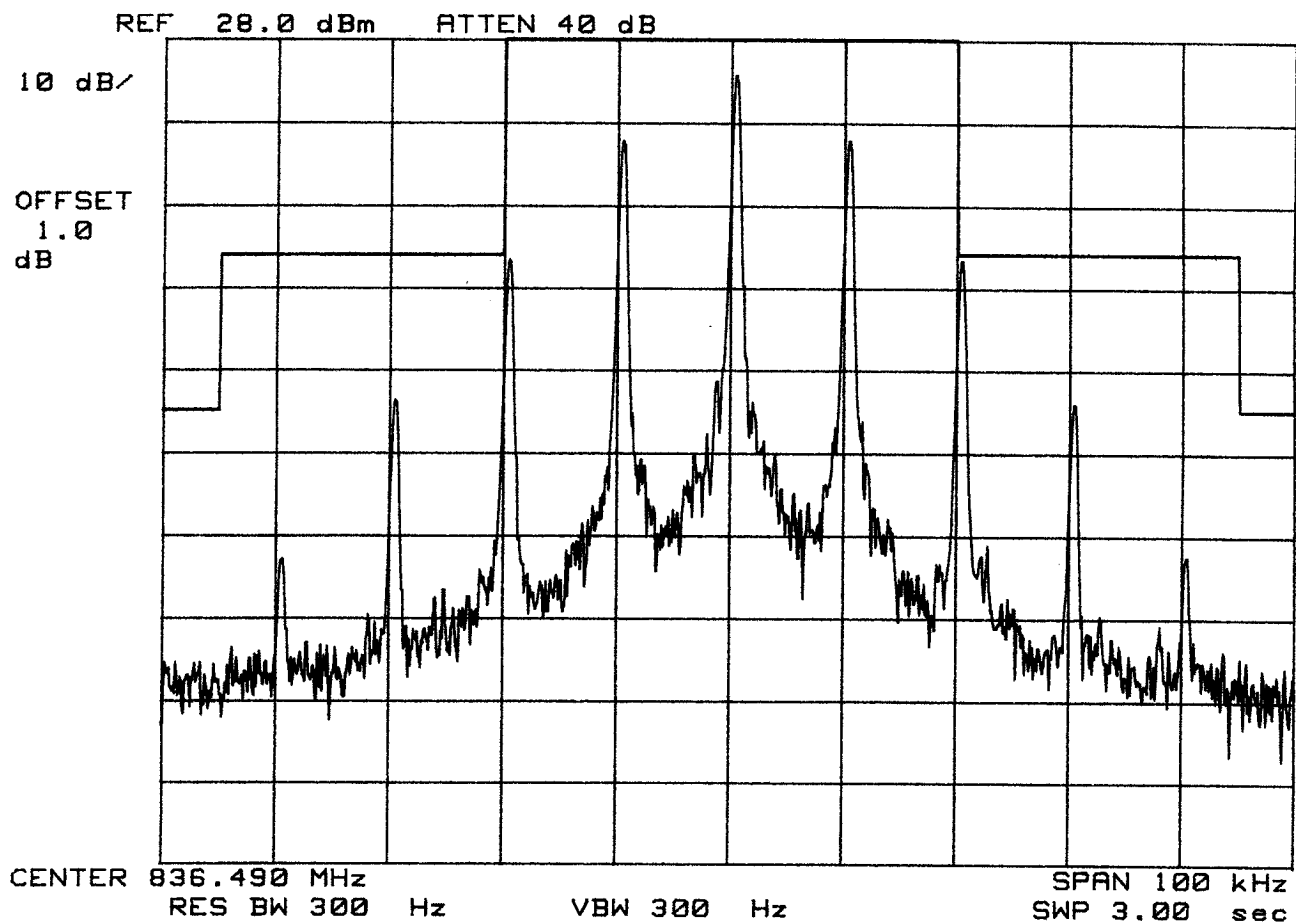
CHAN 383

DUAL MODE PHONE

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-200D

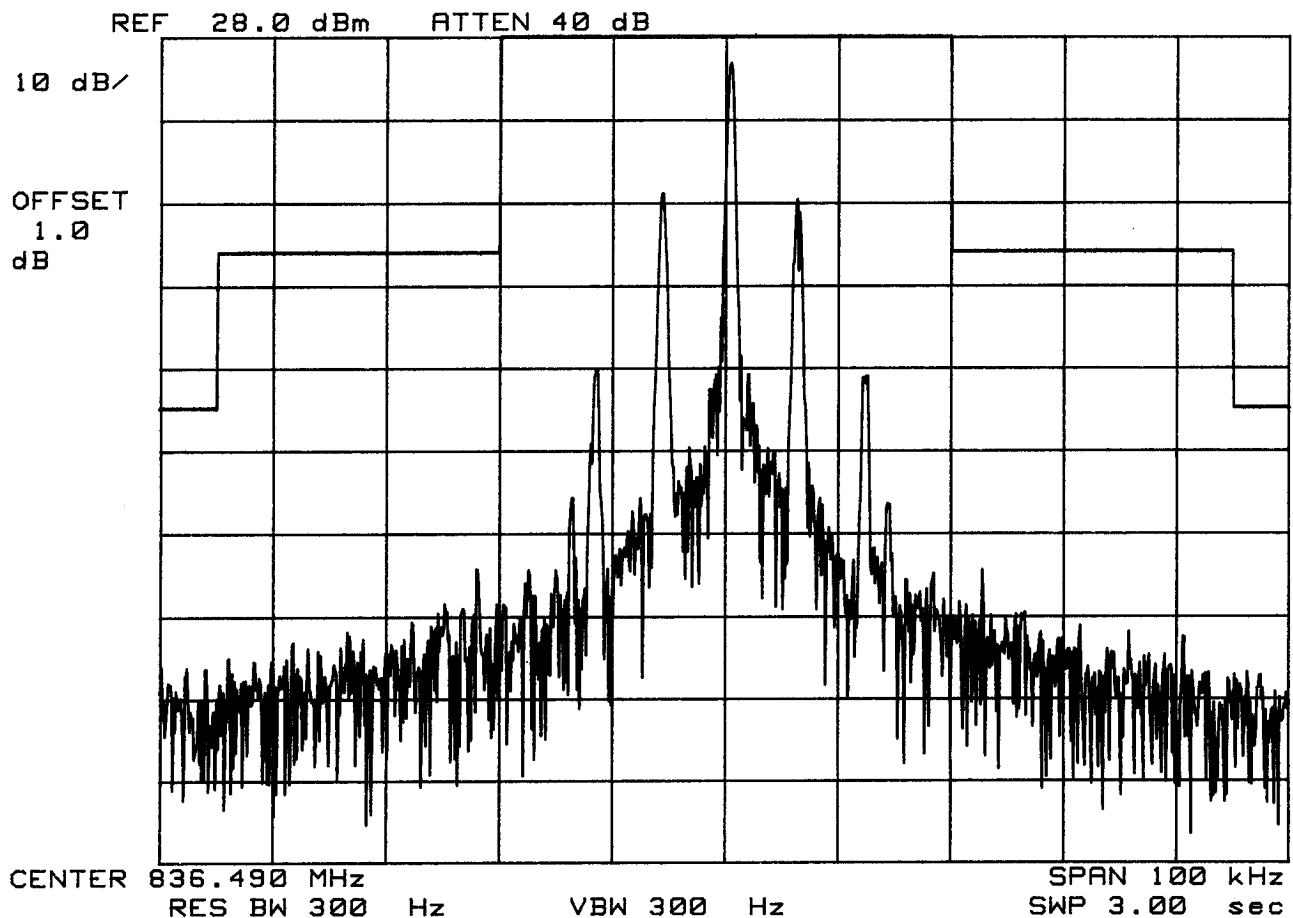
CHAN 383

DUAL MODE PHONE

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT



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SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-200D

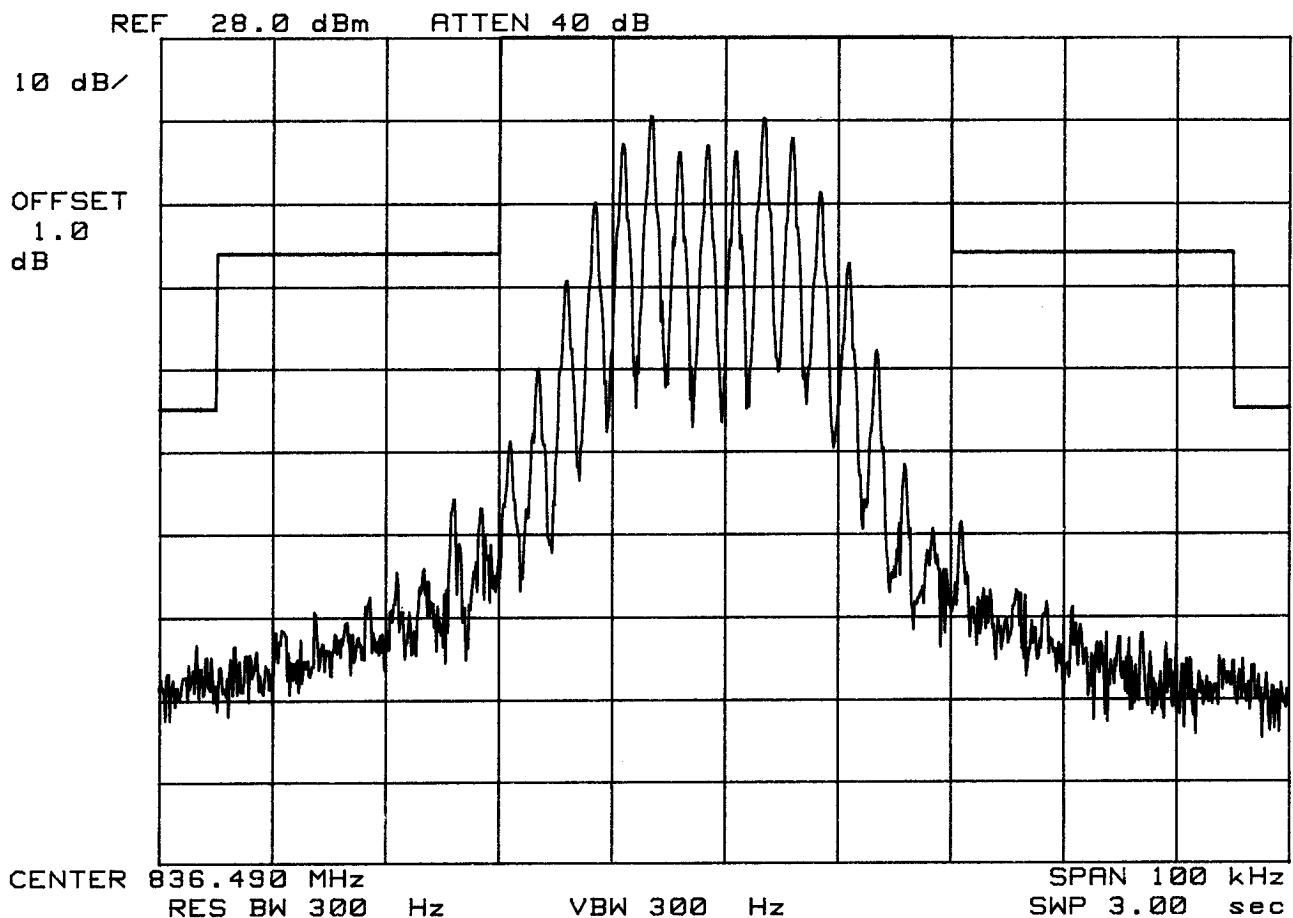
CHAN 383

DUAL MODE PHONE

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Voice



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SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-200D

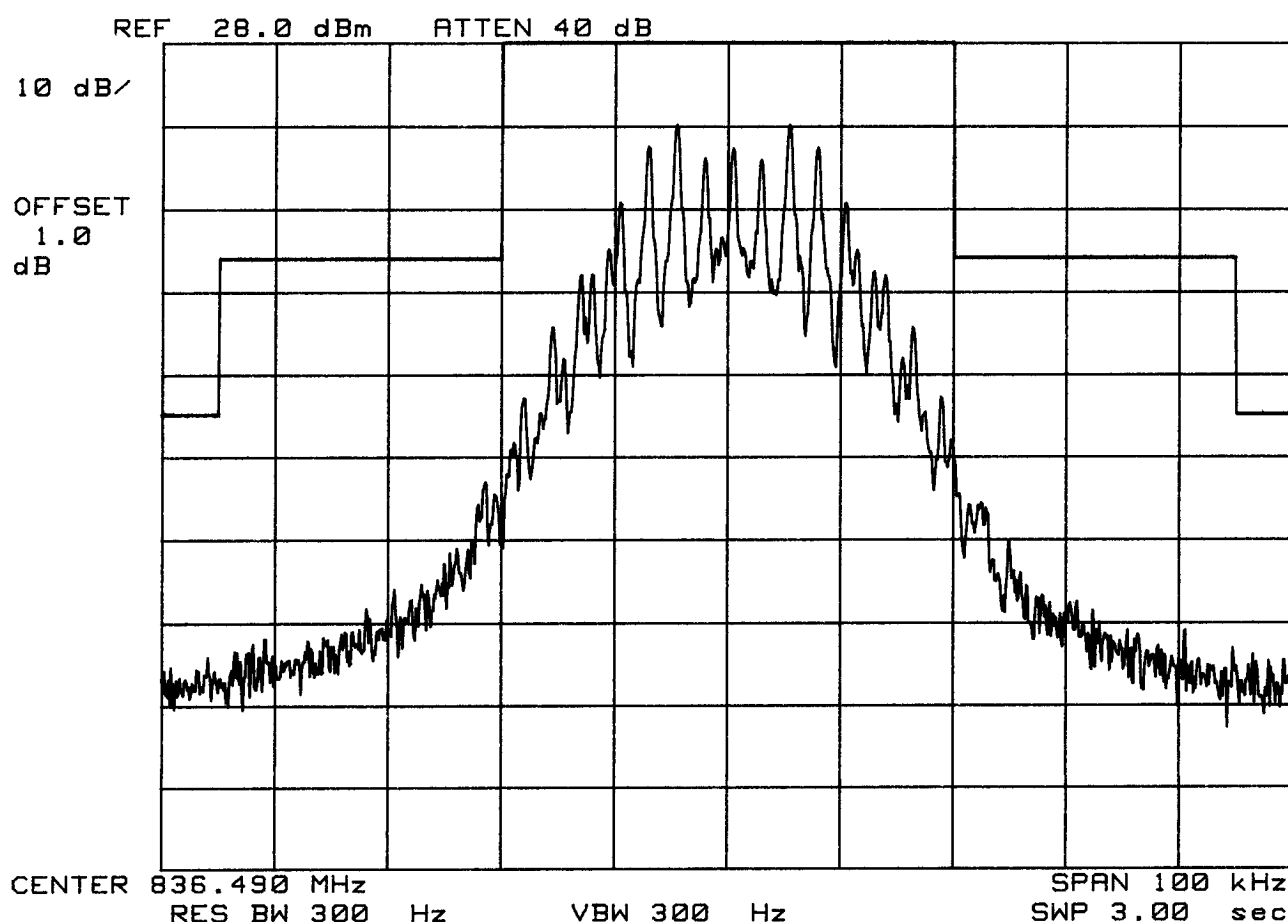
CHAN 383

DUAL MODE PHONE

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT + Voice



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SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-200D

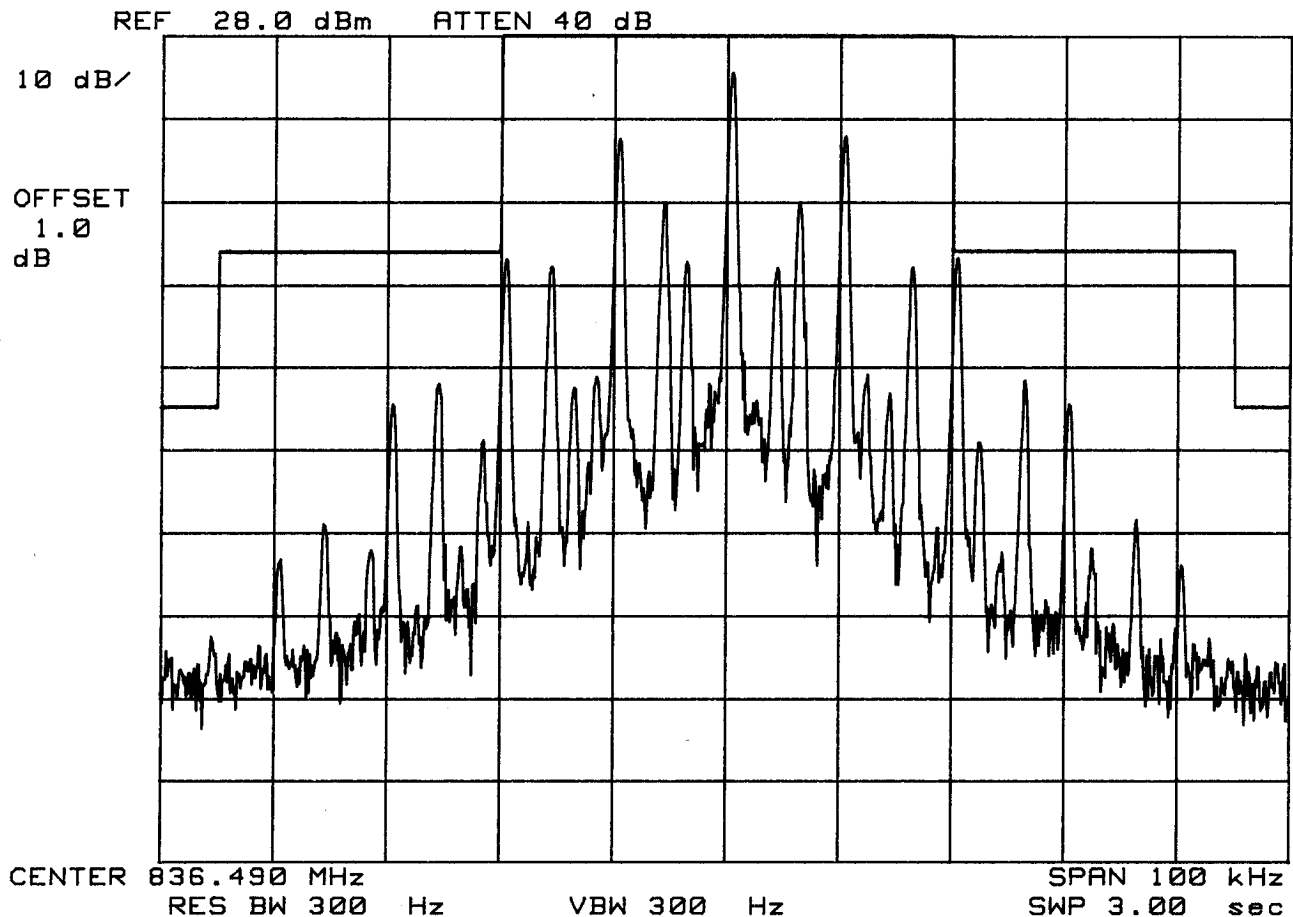
CHAN 383

DUAL MODE PHONE

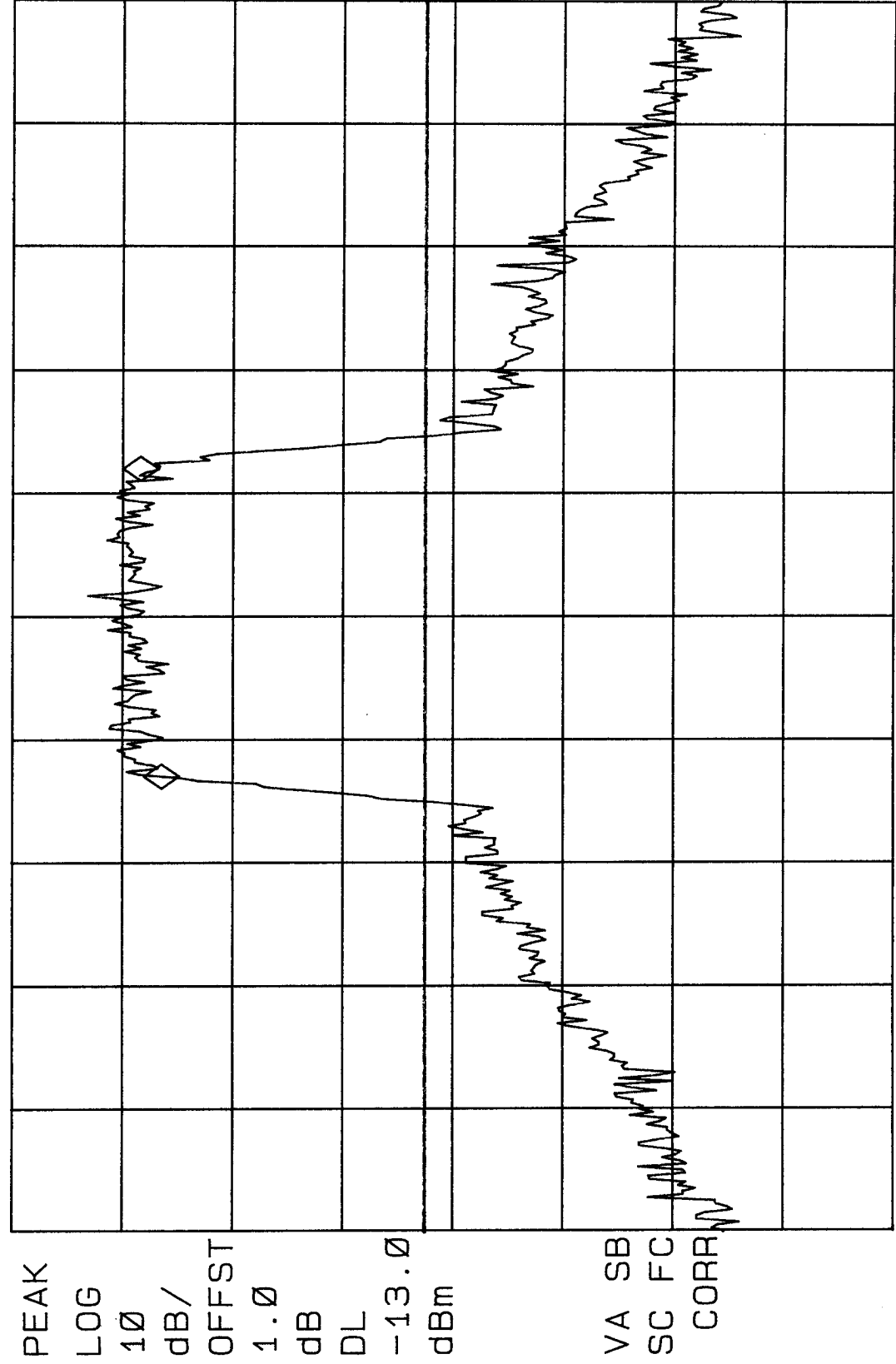
Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT + ST

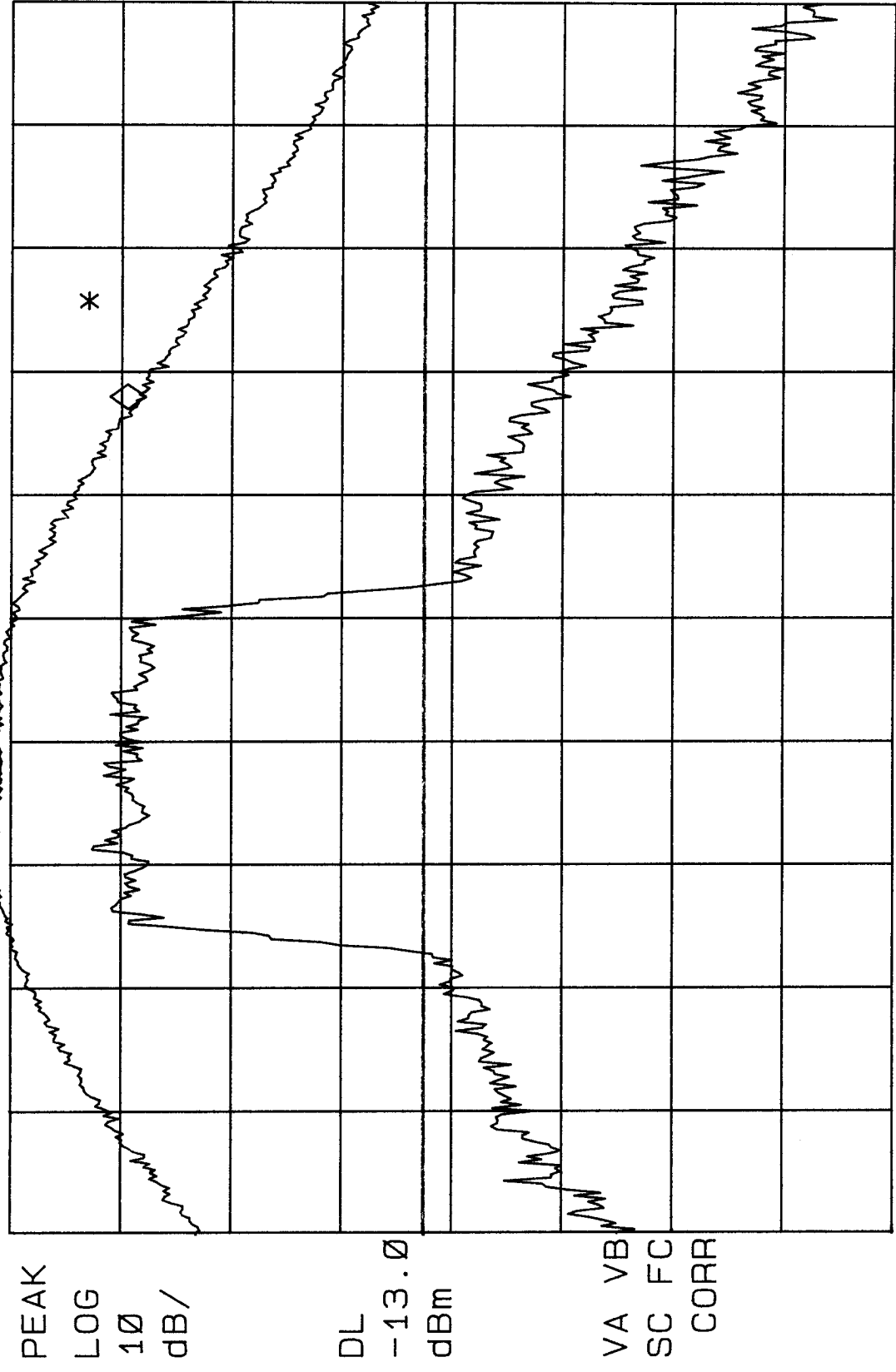


FCC ID: CKLHGC-2000 CH-383 CDMA 99% BW MKR Δ 1.250 MHz
 REF 24.5 dBm ATTN 40 dB 1.92 dB



CENTER 836.490 MHz SPAN 5.000 MHz
 #RES BW 30 KHZ #VBW 30 KHZ SWP 20 msec

~~10~~ FCC ID: CKLHGC2000 CDMA CH-0779 MKR 849.870 MHz
REF 24.5 dBm ATTN 40 dB 12.36 dBm



CENTER 848.970 MHz SPAN 5.000 MHz
#RES BW 30 KHZ #VBW 30 KHZ SWP 20 msec

FCC ID: CKLHGC2000 CDMA CH-1016

REF 24.5 dBm ATTN 40 dB

PEAK
LOG
10
dB/

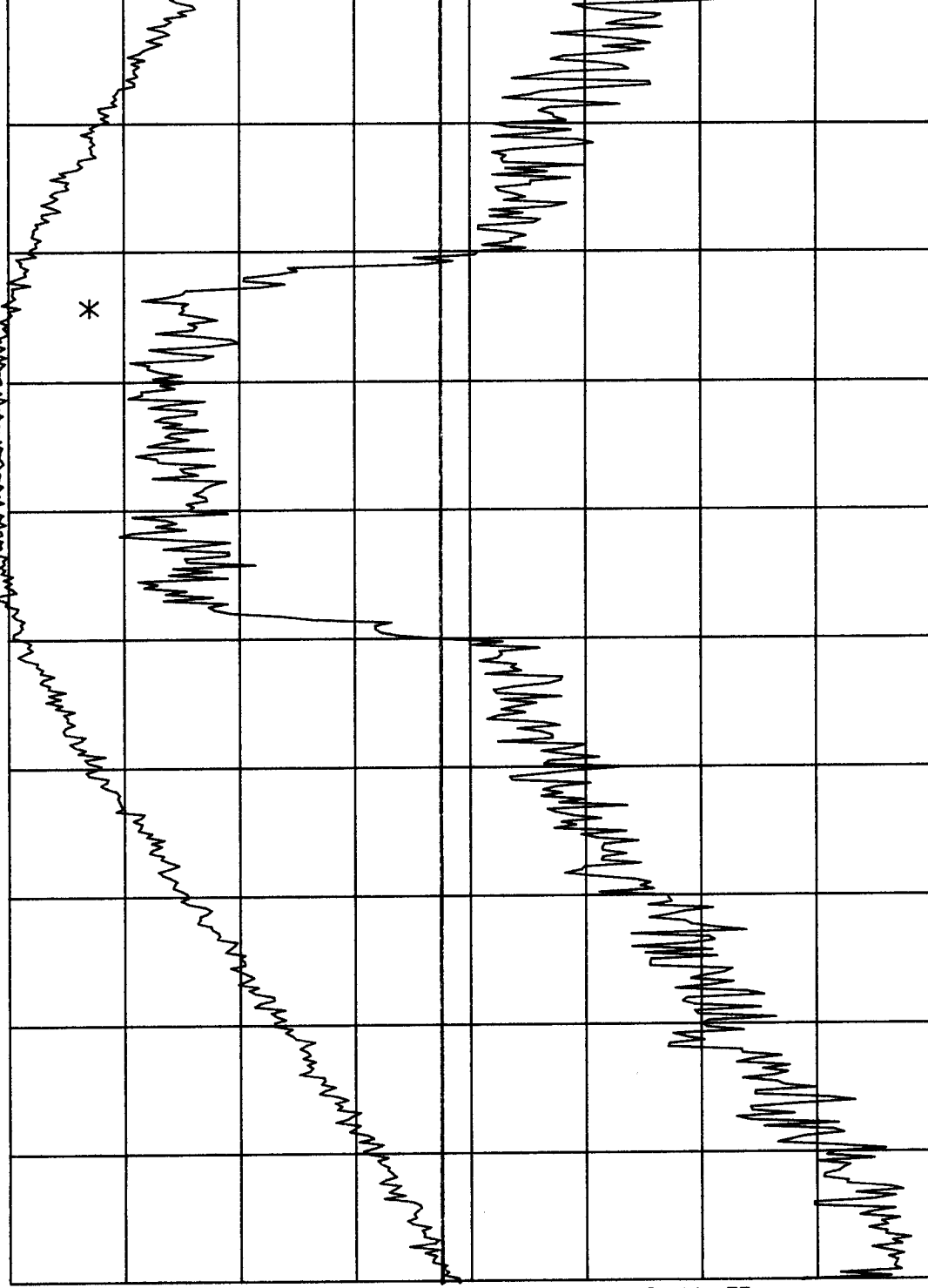
DL
-13.0
dBm

VA VB
SC FC
CORR

CENTER 824.040 MHz
#RES BW 30 KHz

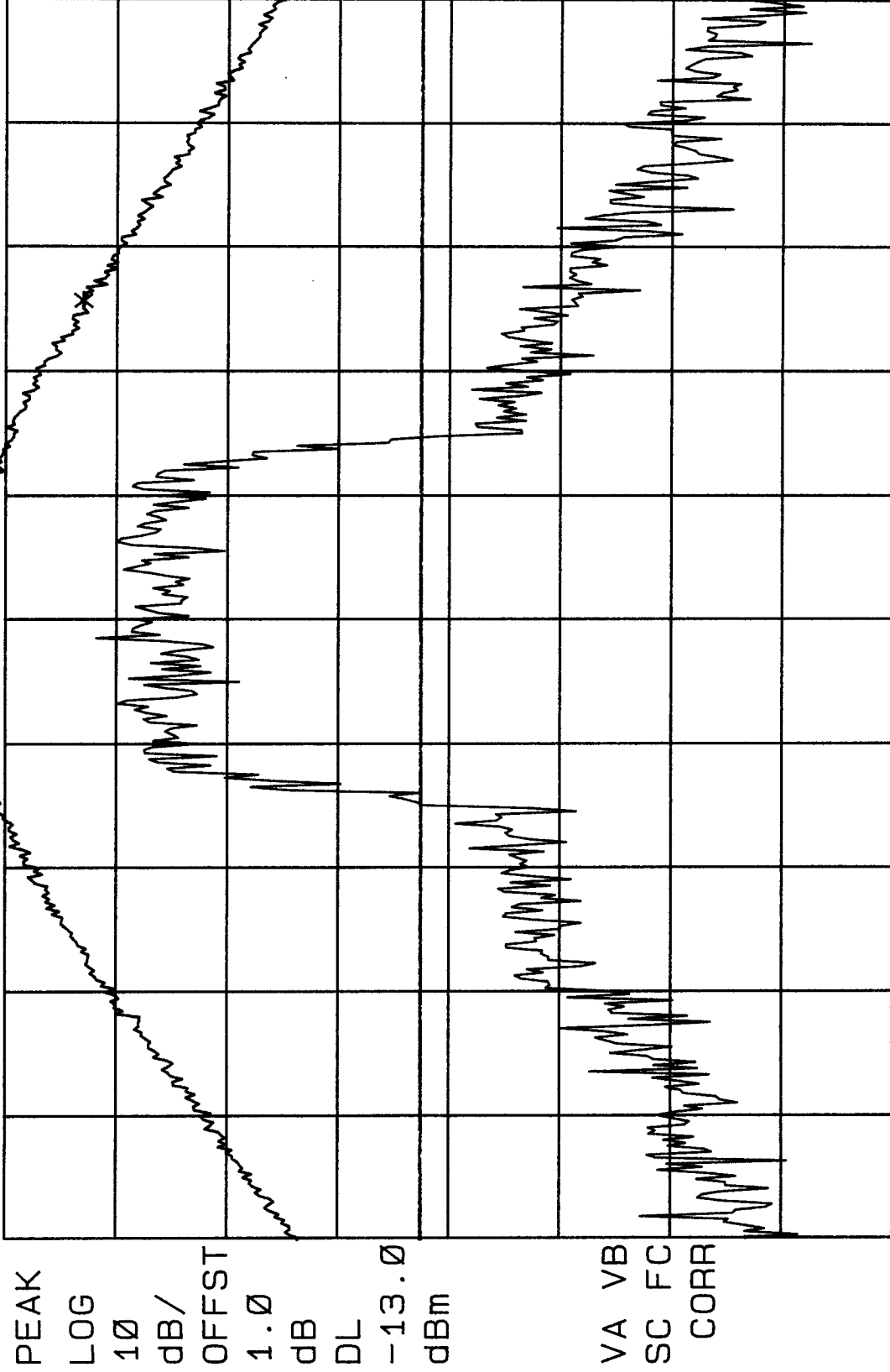
#VBW 30 KHz

SPAN 5.000 MHz
SWP 20 msec



FCC ID: CKLHGC-2000 CH-383 CDMA

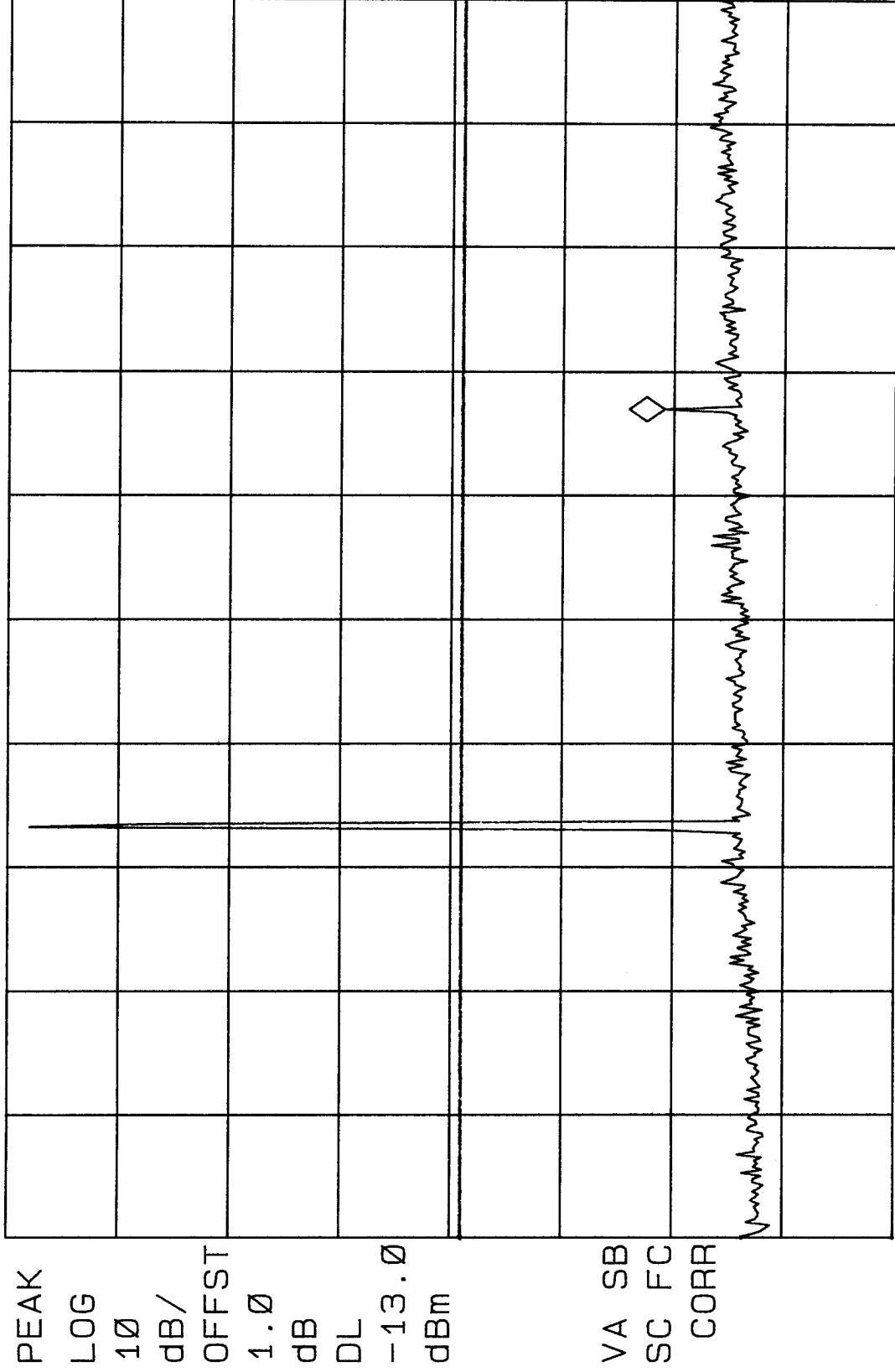
REF 24.5 dBm ATTN 40 dB



CENTER 836.490 MHz
#RES BW 30 KHZ

SPAN 5.000 MHz
#VBW 30 KHZ
SWP 20 msec

~~NO~~ FCC ID: CKLHGC-2000D CH-383 CON SPURS MKR 1.678 GHz
REF 28.0 dBm ATTEN 40 dB -31.13 dBm



START 10 MHz STOP 2.500 GHz
#RES BW 1.0 MHz #VBW 1 MHz SWP 50 msec

Ch 369

FCC ID-CKLHGC200D

MKR 7.135 GHz
-31.20 dBm

h_p REF 28.0 dBm ATTN 40 dB

10 dB/

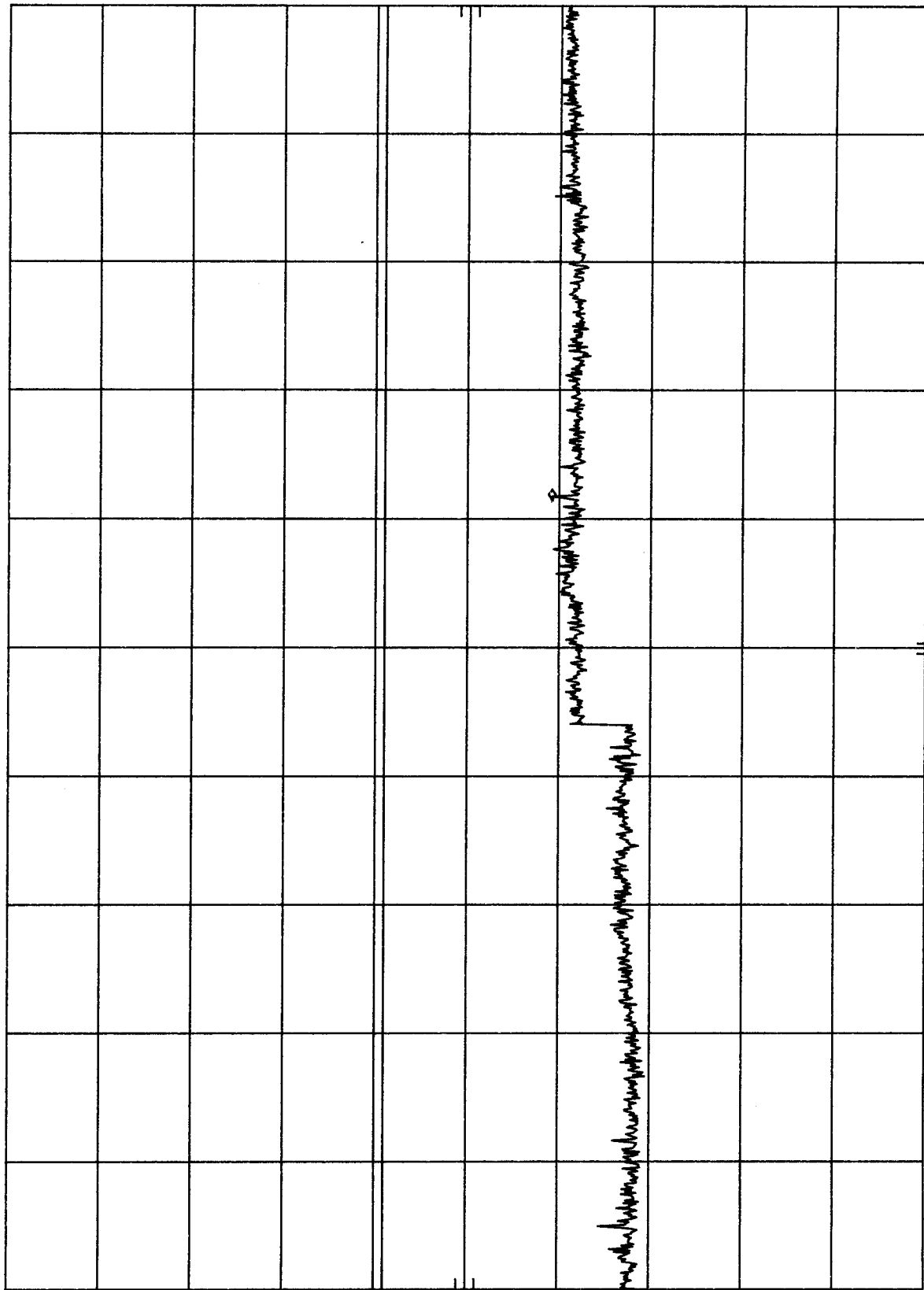
POS PK

OFFSET

1.0
dB

DL

-13.0
dBm



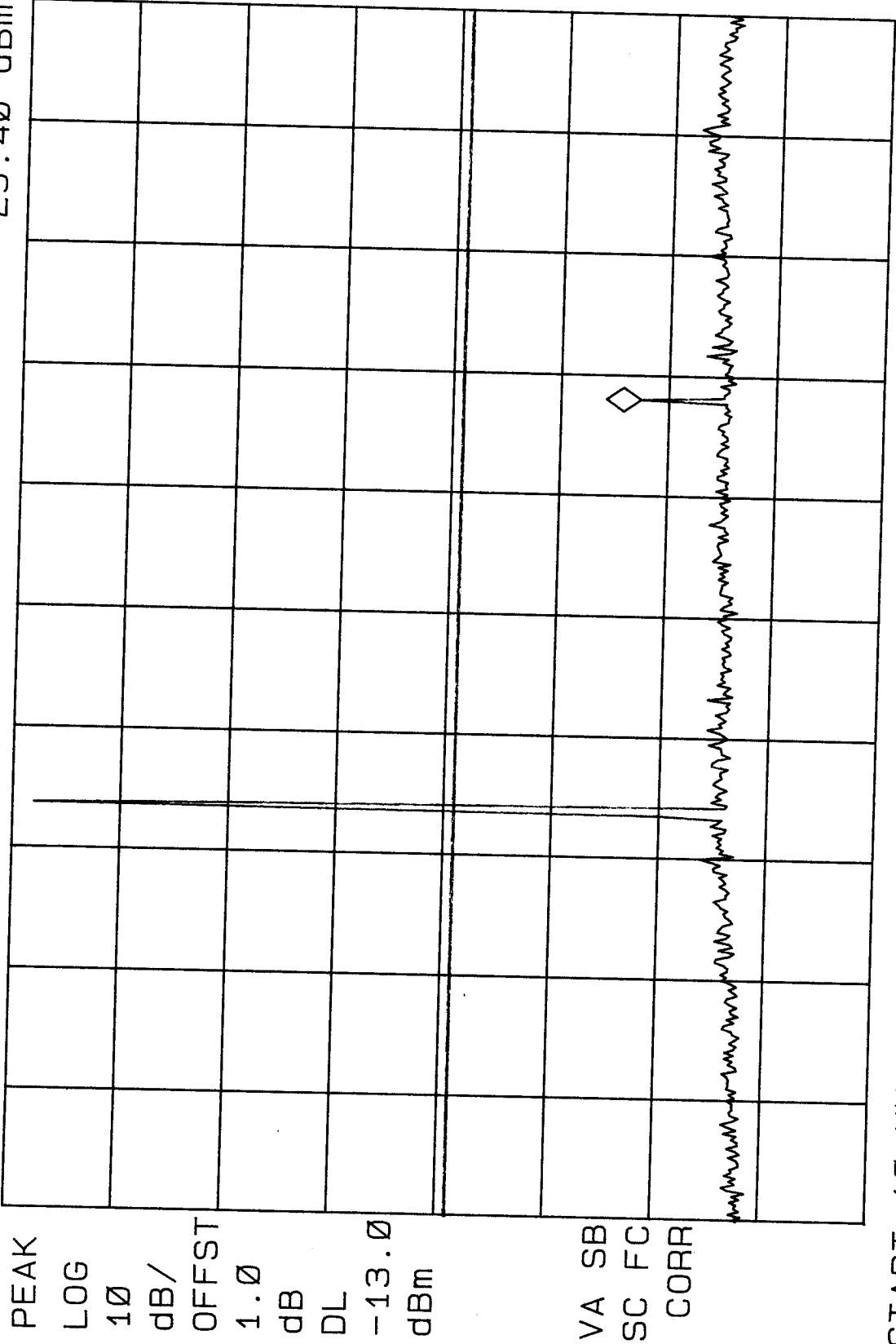
START 2.50 GHz

RES BW 1 MHz

VBW 1 MHz

STOP 10.00 GHz
SWP 188 msec

FCC ID: CKLHGC-2000 CH-799 CON SPURS MKR 1.703 GHz
REF 28.0 dBm ATTEN 40 dB -29.40 dBm



START 10 MHz
#RES BW 1.0 MHz
STOP 2.500 GHz
SWP 50 msec

C799

FCC ID-CKLHGC200D

MKR 7.135 GHz
-32.30 dBm

hp REF 28.0 dBm ATTN 40 dB

10 dB/

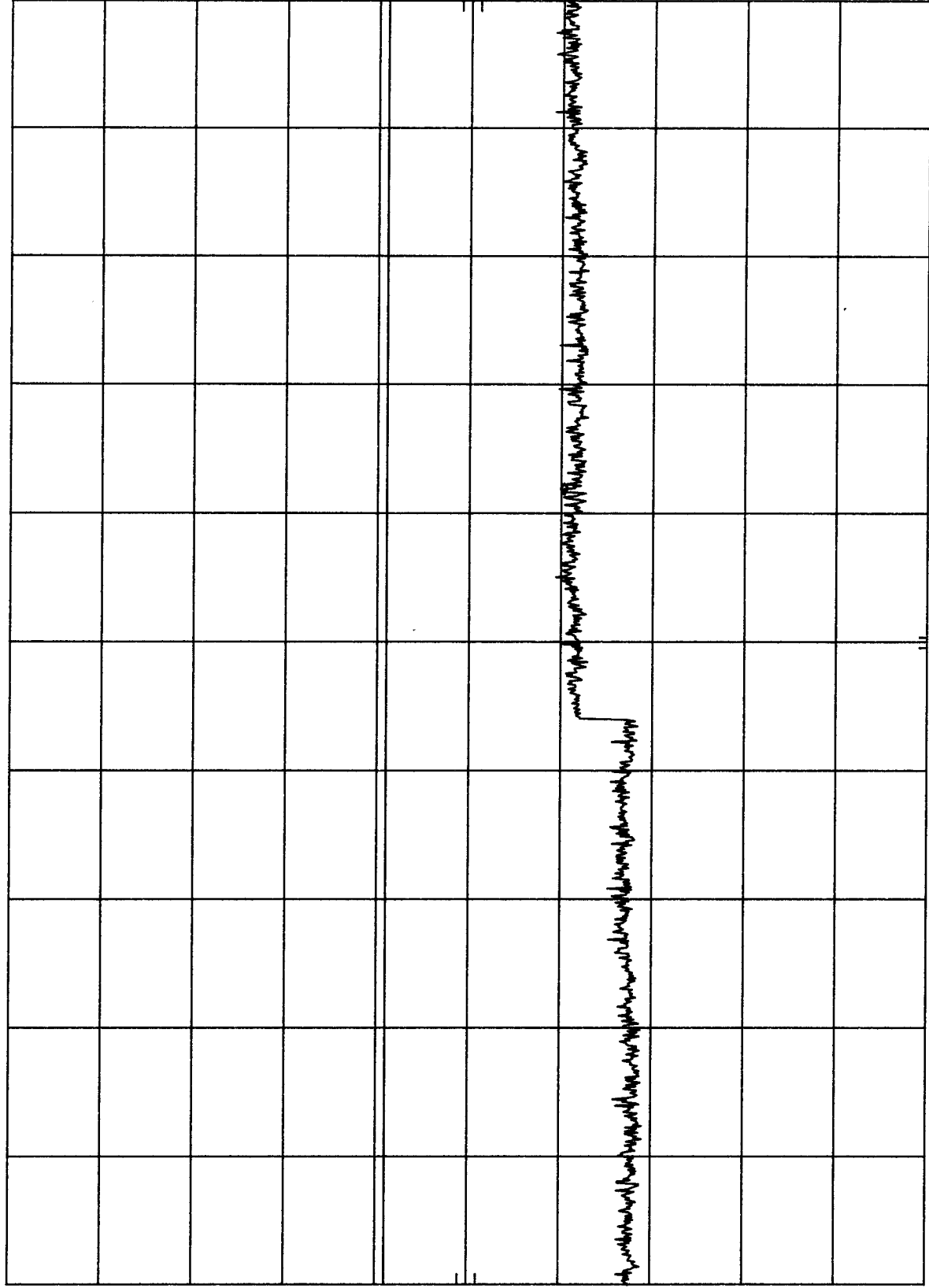
POS PK

OFFSET

1.0
dB

DL

-13.0
dBm



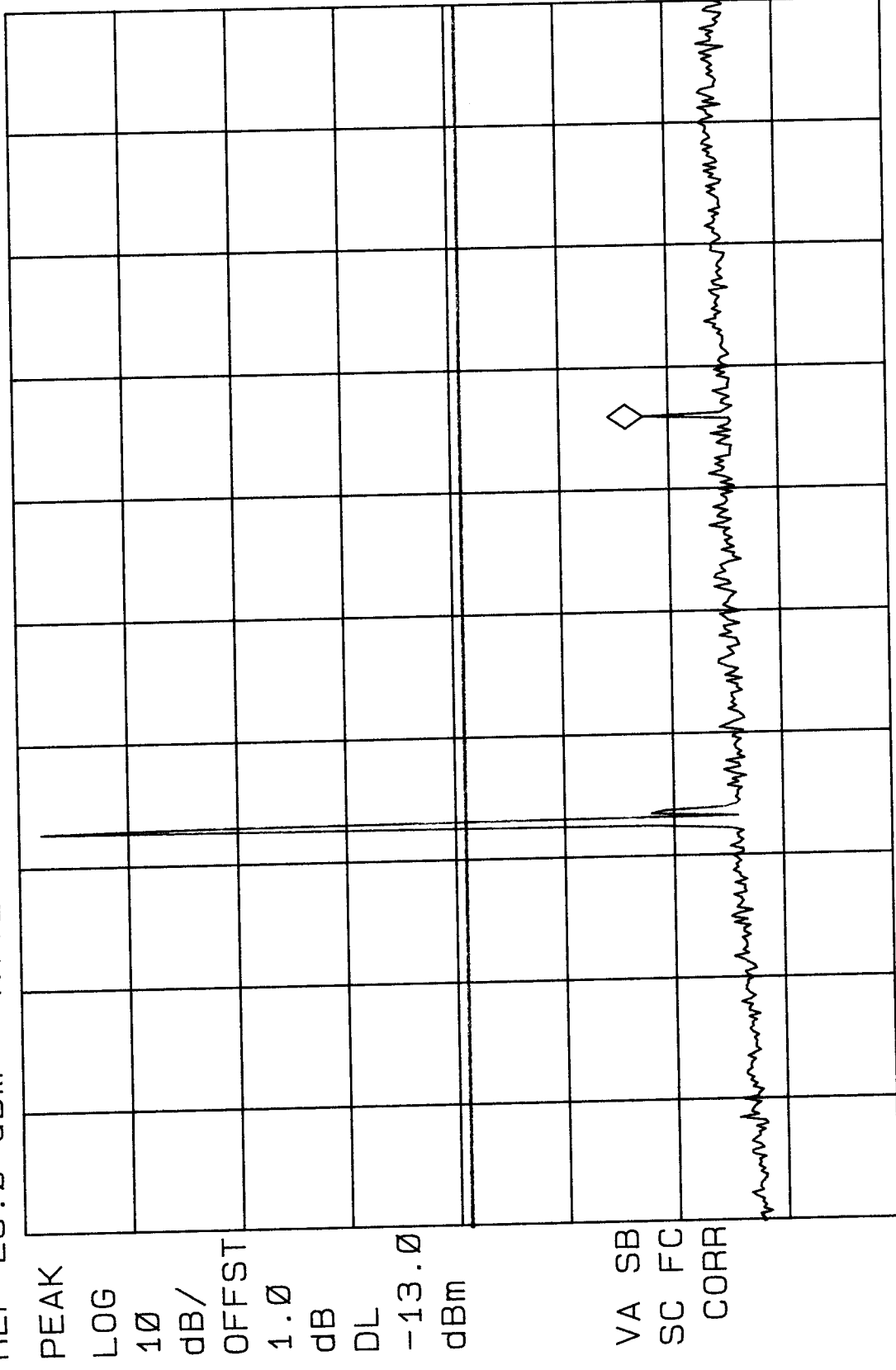
START 2.50 GHz

RES BW 1 MHz

VBW 1 MHz

STOP 10.00 GHz
SWP 188 msec

FCC ID: CKLHGC-200D CH-991 CON SPURS MKR 1.653 GHz
REF 28.0 dBm ATTEN 40 dB -29.67 dBm



START 10 MHz STOP 2.500 GHz
#RES BW 1.0 MHz #VBW 1 MHz SWP 50 msec

0.000

FCC ID-CKLHGC2000

HP

REF 28.0 dBm

ATTEN 40 dB

MKR 9.633 GHz

-31.10 dBm

10 dB/

POS PK

OFFSET

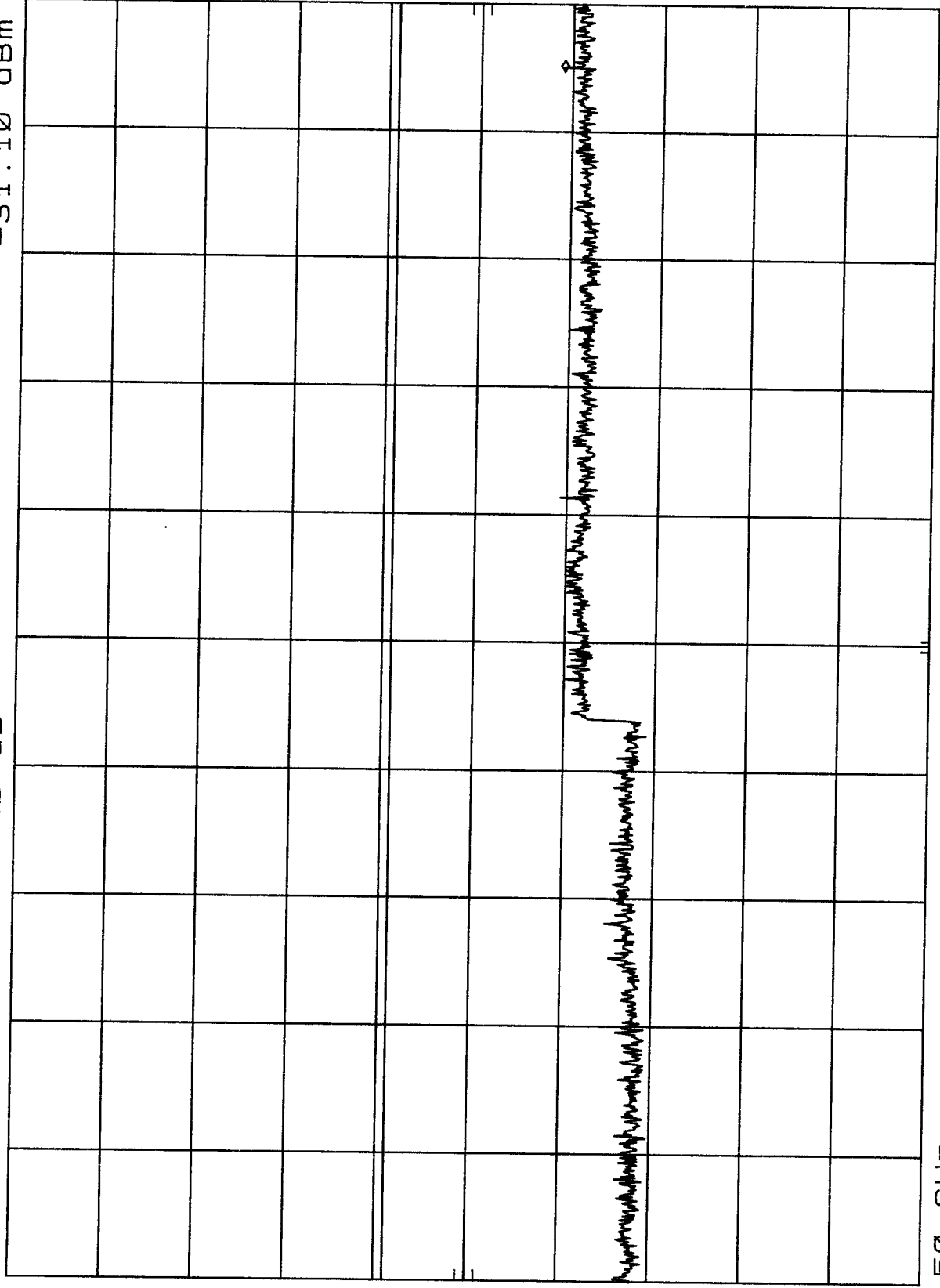
1.0

dB

DL

-13.0

dBm



START 2.50 GHz

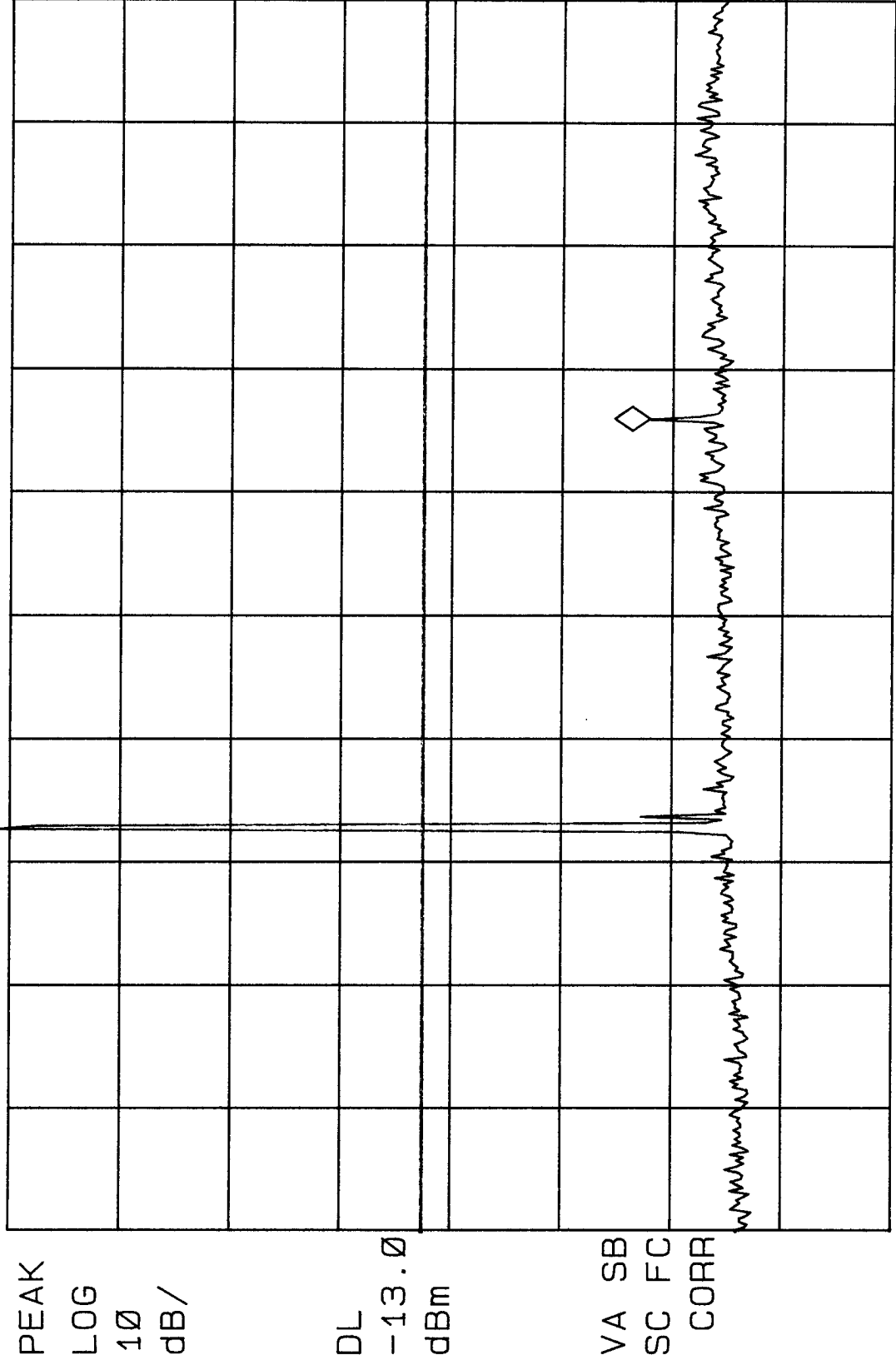
RES BW 1 MHz

VBW 1 MHz

STOP 10.00 GHz

SWP 188 msec

~~h~~ FCC ID: CKLHGC2000 CDMA CH-1016 CON SPURSMKR 1.653 GHz
REF 24.5 dBm ATTN 40 dB -33.42 dBm



START 10 MHz STOP 2.500 GHz
#RES BW 1.0 MHz #VBW 1 MHz SWP 50 msec

Ch 1016

FCC ID-CKLHGC200D CDMA MODE

MKR 9.933 GHz

-31.10 dBm

REF 24.5 dBm

ATTEN 40 dB

hp

10 dB/

POS PK

OFFSET

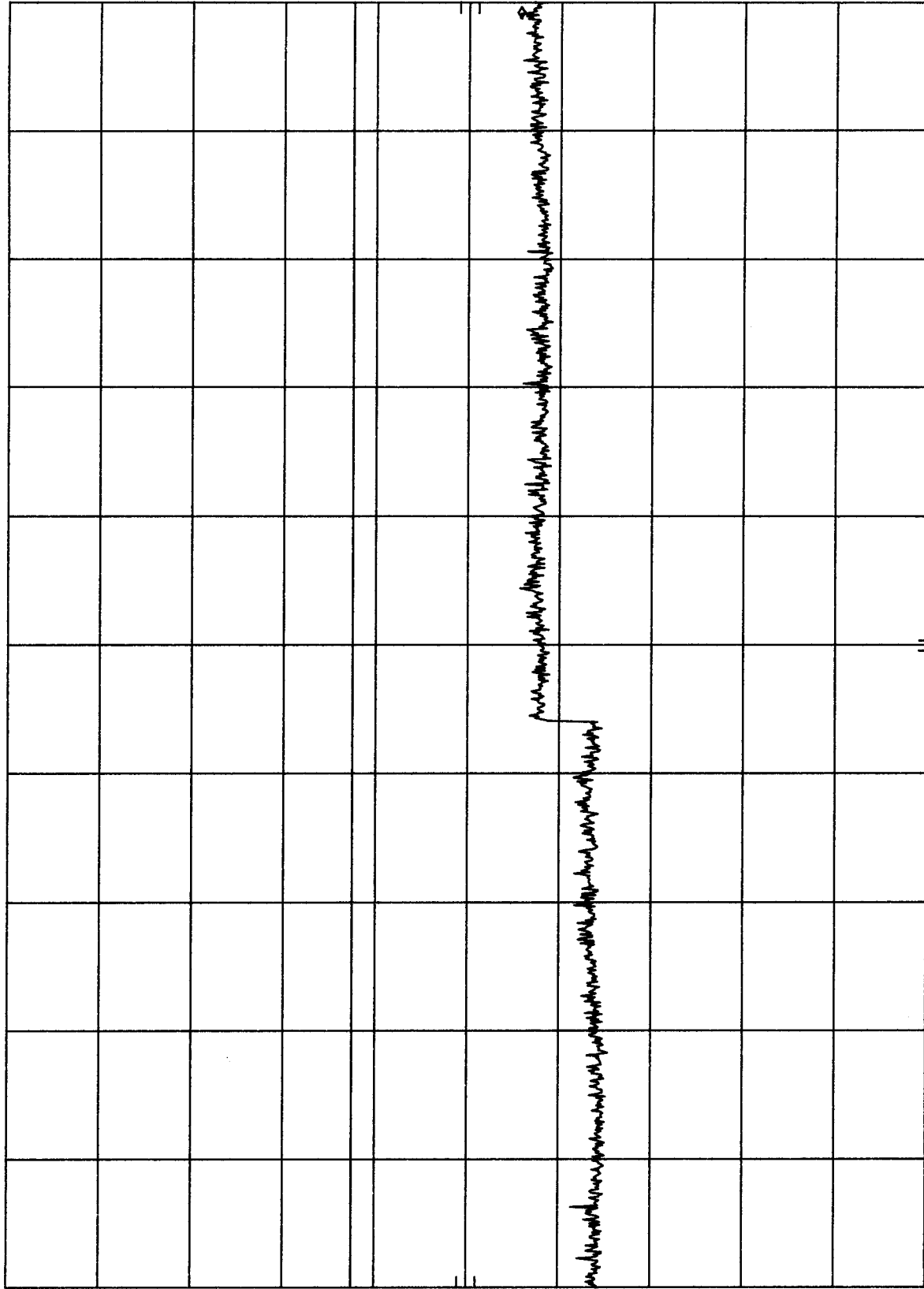
1.0

dB

DL

-13.0

dBm



START 2.50 GHz

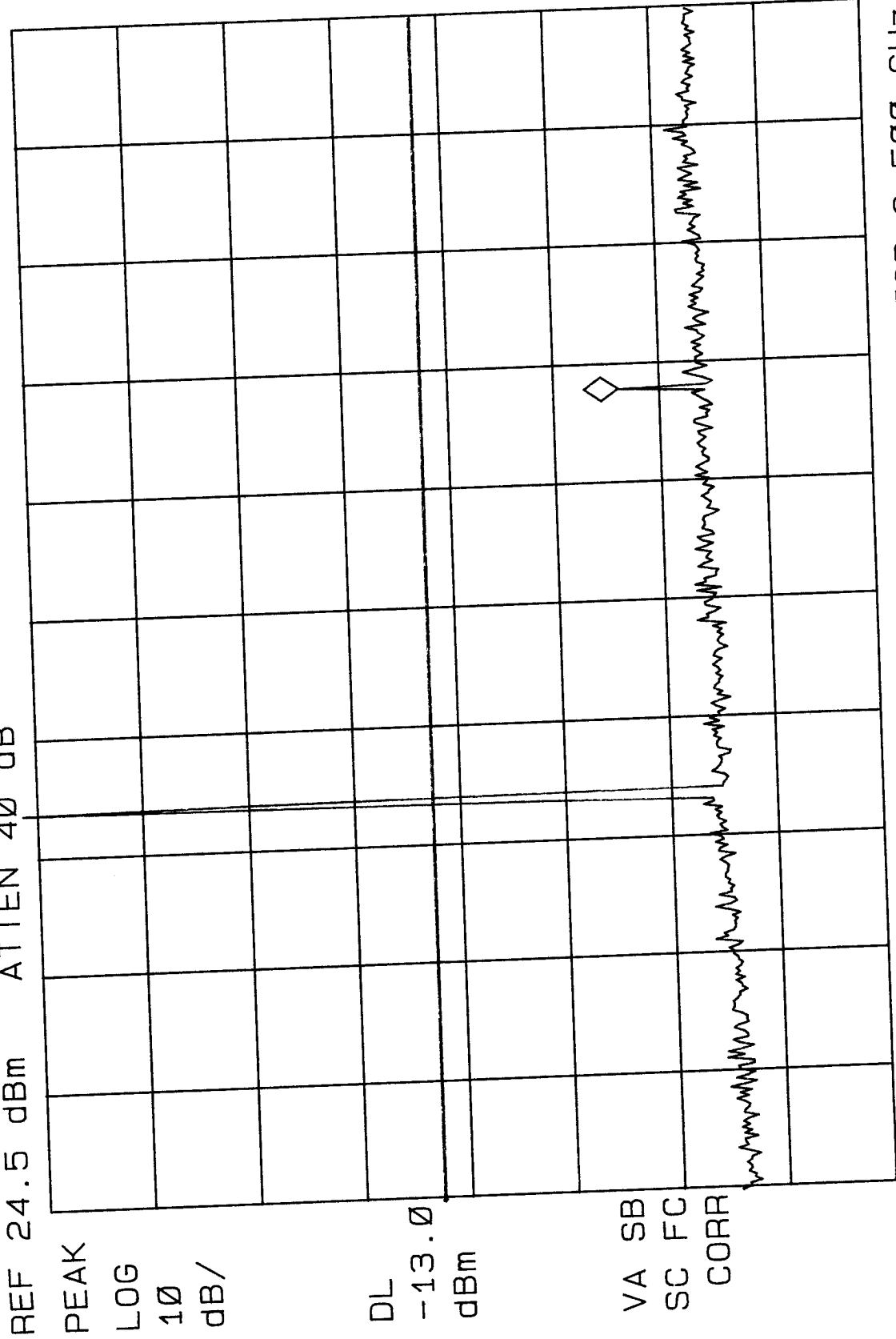
RES BW 1 MHz

VBW 1 MHz

STOP 10.00 GHz

SWP 188 msec

FCC ID: CKLHGC2000 CDMA CH-0779 SPURS MKR 1.703 GHz
REF 24.5 dBm ATTEN 40 dB -31.63 dBm



START 10 MHz #RES BW 1.0 MHz STOP 2.500 GHz #VBW 1 MHz SWP 50 msec

C-179

FCC ID-CKLHGC200D CDMA MODE

MKR 9.003 GHz
-30.90 dBm

hp

REF 24.5 dBm ATTN 40 dB

10 dB/

POS PK

OFFSET

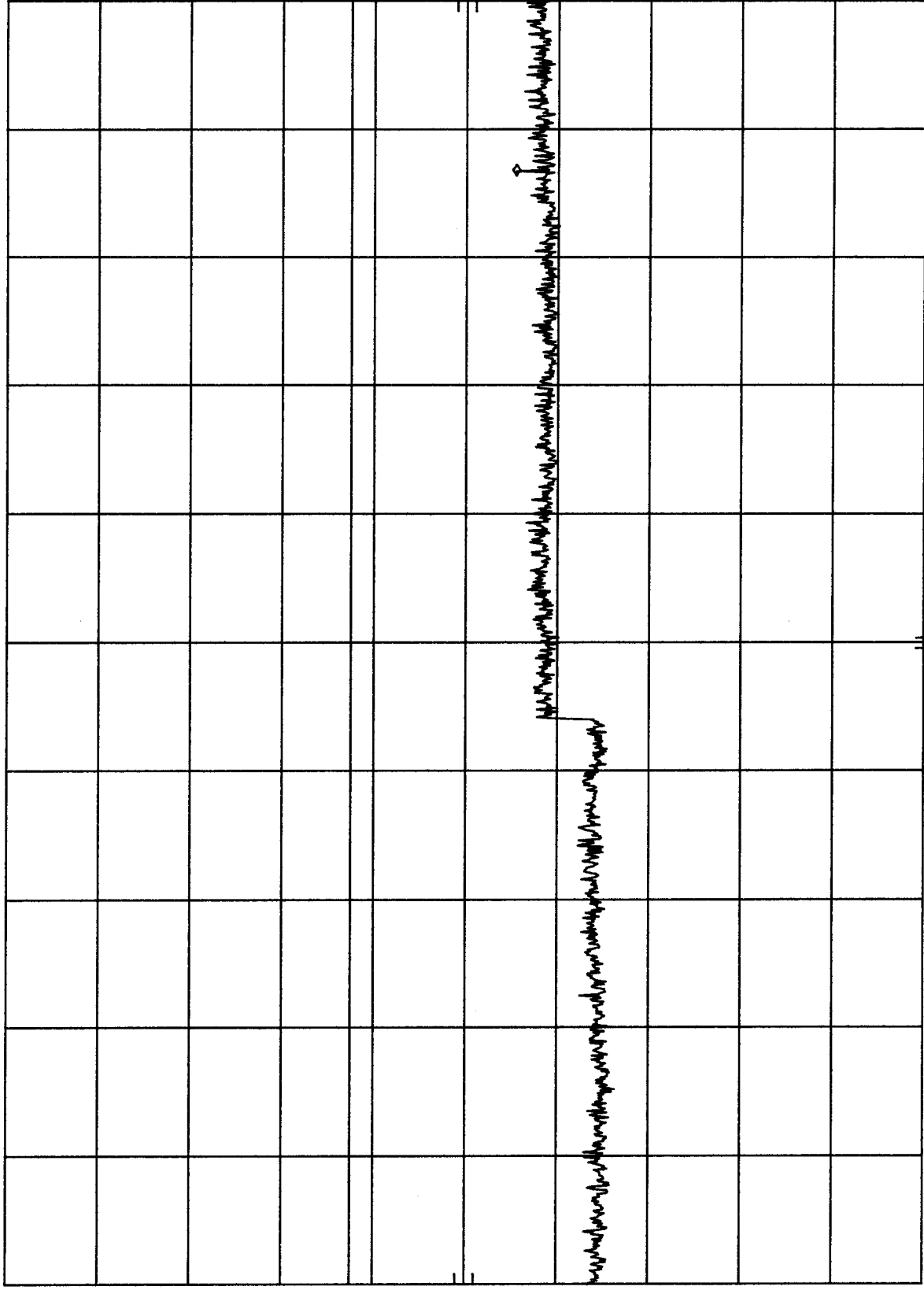
1.0

dB

DL

-13.0

dBm



START 2.50 GHz

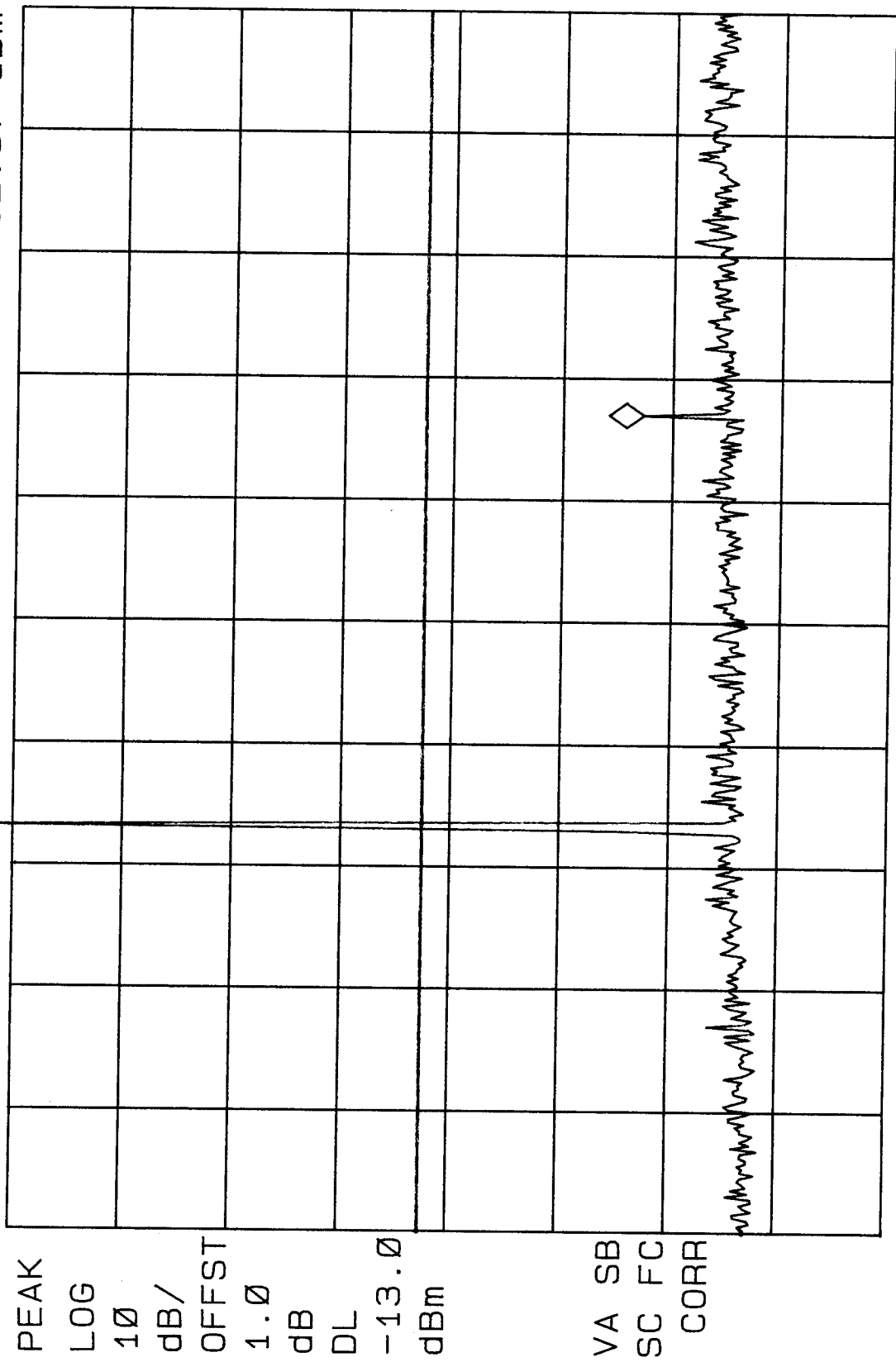
RES BW 1 MHz

VBW 1 MHz

STOP 10.00 GHz

SWP 188 msec

FCC ID: CKLHGC-2000 CH-383 CDMA SPURS MKR 1.678 GHz
REF 24.5 dBm ATTN 40 dB -32.87 dBm



START 10 MHz STOP 2.500 GHz
#RES BW 1.0 MHz #VBW 1 MHz SWP 50 msec

ch 38

FCC ID-CKLHGC200D CDMA MODE

MKR 9.933 GHz

-31.10 dBm

HP

REF 24.5 dBm

ATTEN 40 dB

10 dB/

POS PK

OFFSET

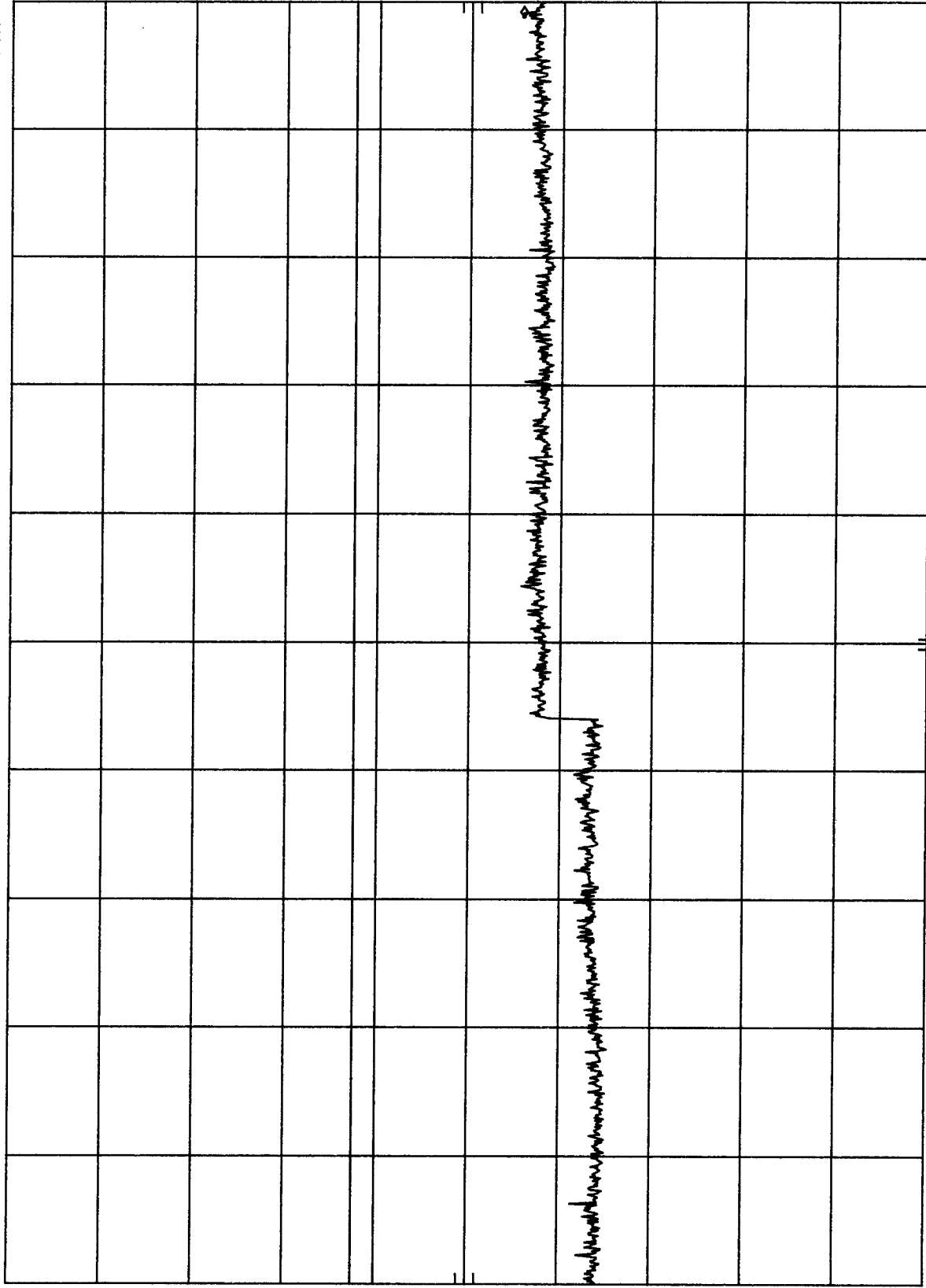
1.0

dB

DL

-13.0

dBm



START 2.50 GHz

RES BW 1 MHz

VBW 1 MHz

STOP 10.00 GHz

SWP 188 msec

MKR 887.19 MHz
-99.31 dBm

MKR 887.19 MHz
-99.31 dBm

[illegible]

[illegible]

[illegible][illegible]

[illegible]

[illegible]

[illegible][illegible]

START 869.00 MHz
STOP 894.00 MHz

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#SWP 100 msec
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#SWP 100 msec