



**Frequency Hopping
Spread Spectrum Transmitter
Modular Approval**

Certification Test Report

FCC ID: HSW-910M

ACS Report Number: 04-0132-15C

**Manufacturer: Cirronet, Inc.
Equipment Type: Transceiver
Model: WIT910**

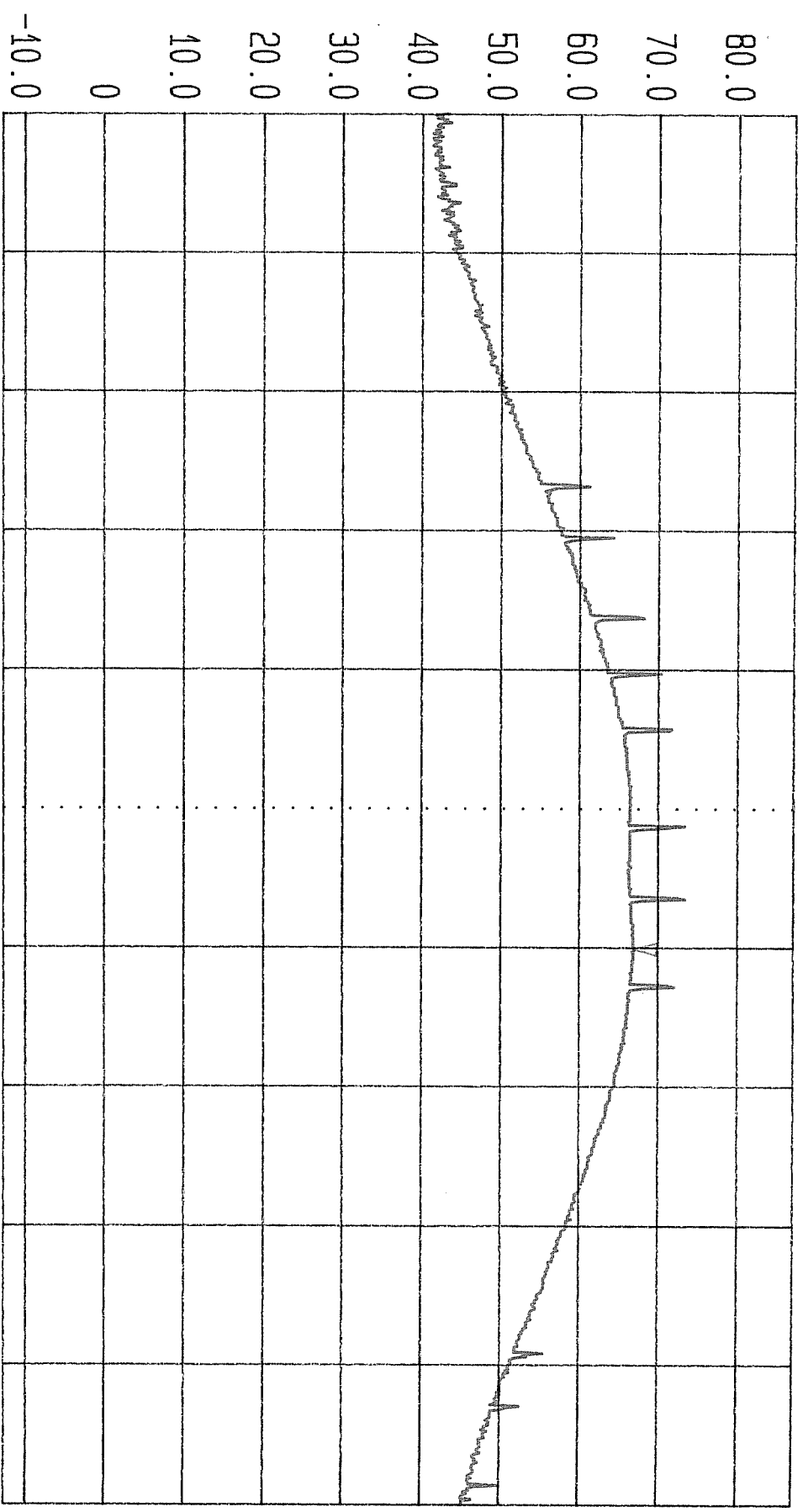
**Radiated Spurious Emission Plots –
Dipole Antenna**



Low Channel



Date 19. May. '04 Time 09:39:48 Res. Bw 1.0 MHz [3dB]
 Ref. Lvl 87.00 dB μ V Marker 66.99 dB μ V T6.Lvl 1 Vid. Bw 1 MHz
 CF. Stp off
 RF. Att Unit [dB μ V]

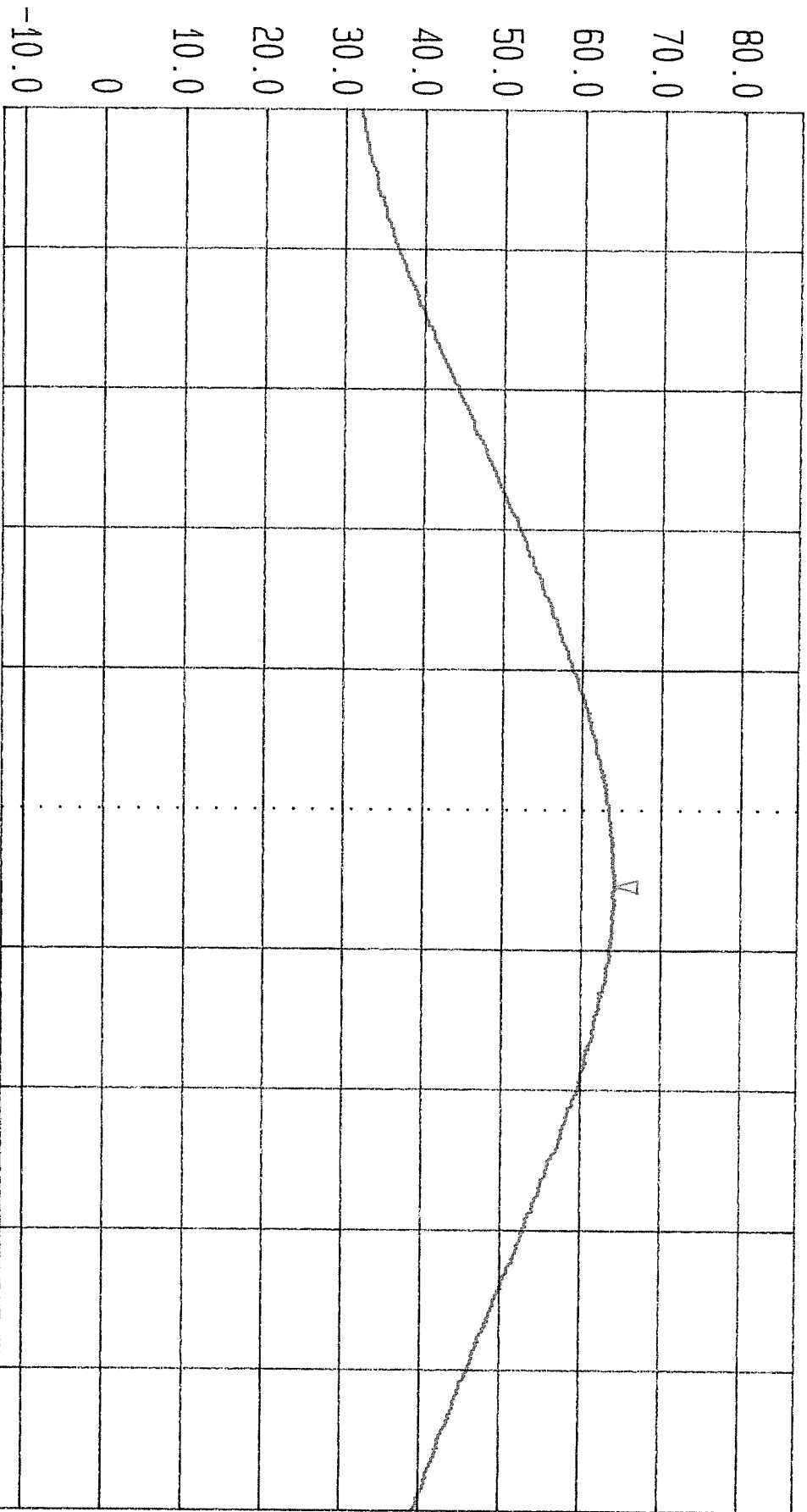


Start 2.70555555 GHz Span 5 MHz Center 2.70805555 GHz Sweep 20 ms Stop 2.71055555 GHz



Date 19.May.'04 Time 09:43:09
 Ref.Lvl 87.00 dBuV
 Marker 2.708333 GHz

Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Vid.Bw 10 Hz
 RF.Att Unit
 [dBuV]



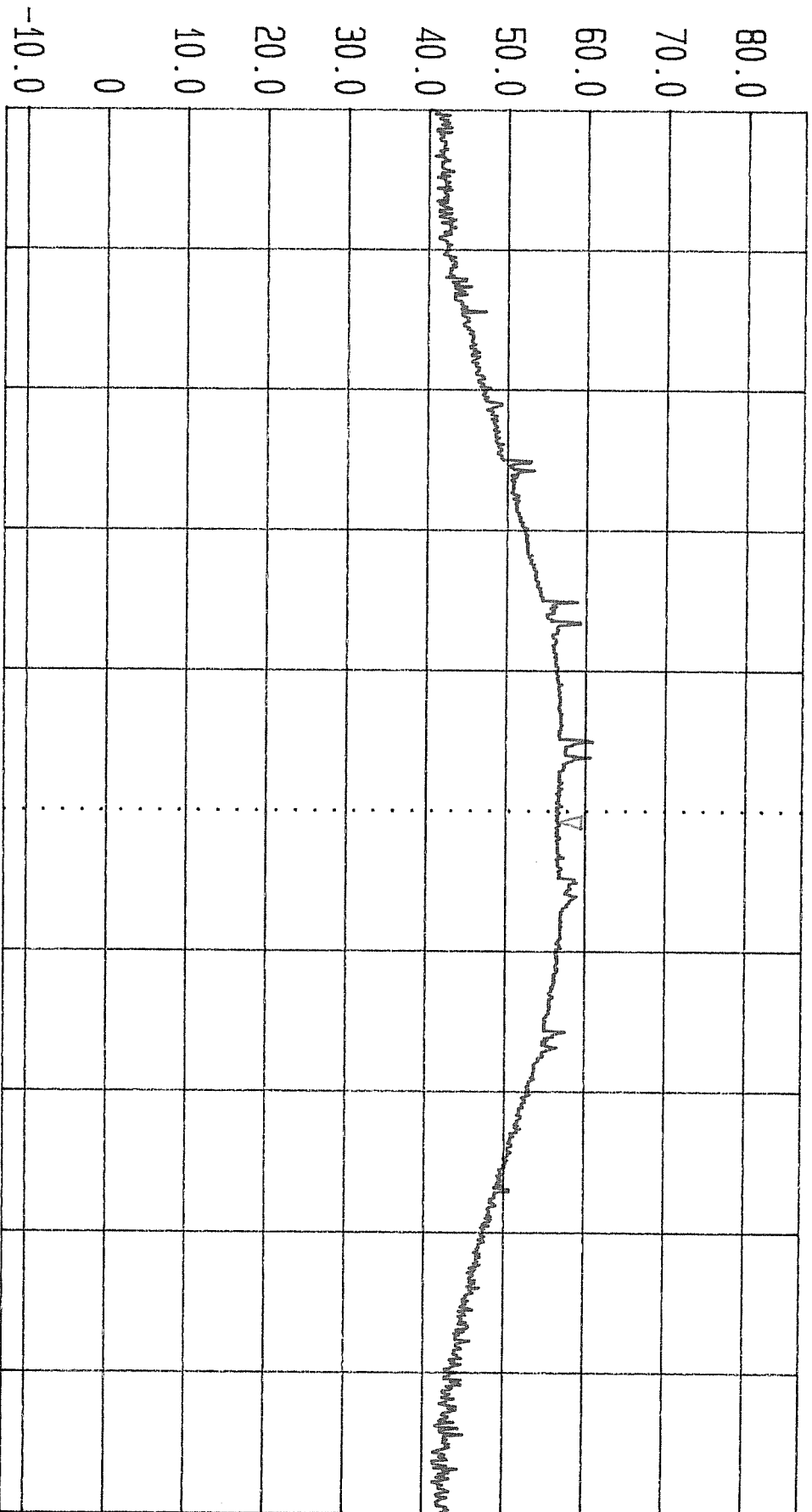
Start 2.705555555 GHz Span 5 MHz Center 2.708055555 GHz Sweep 7.6 s Stop 2.710555555 GHz



Date 19.May.'04 Time 10:09:39
 Ref.Lvl 87.00 dBuV Marker 56.63 dBuV
 3.611099 GHz

Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 902.600 MHz

Vid.Bw 1 MHz
 RF:Att 10 dB
 Unit [dBuV]

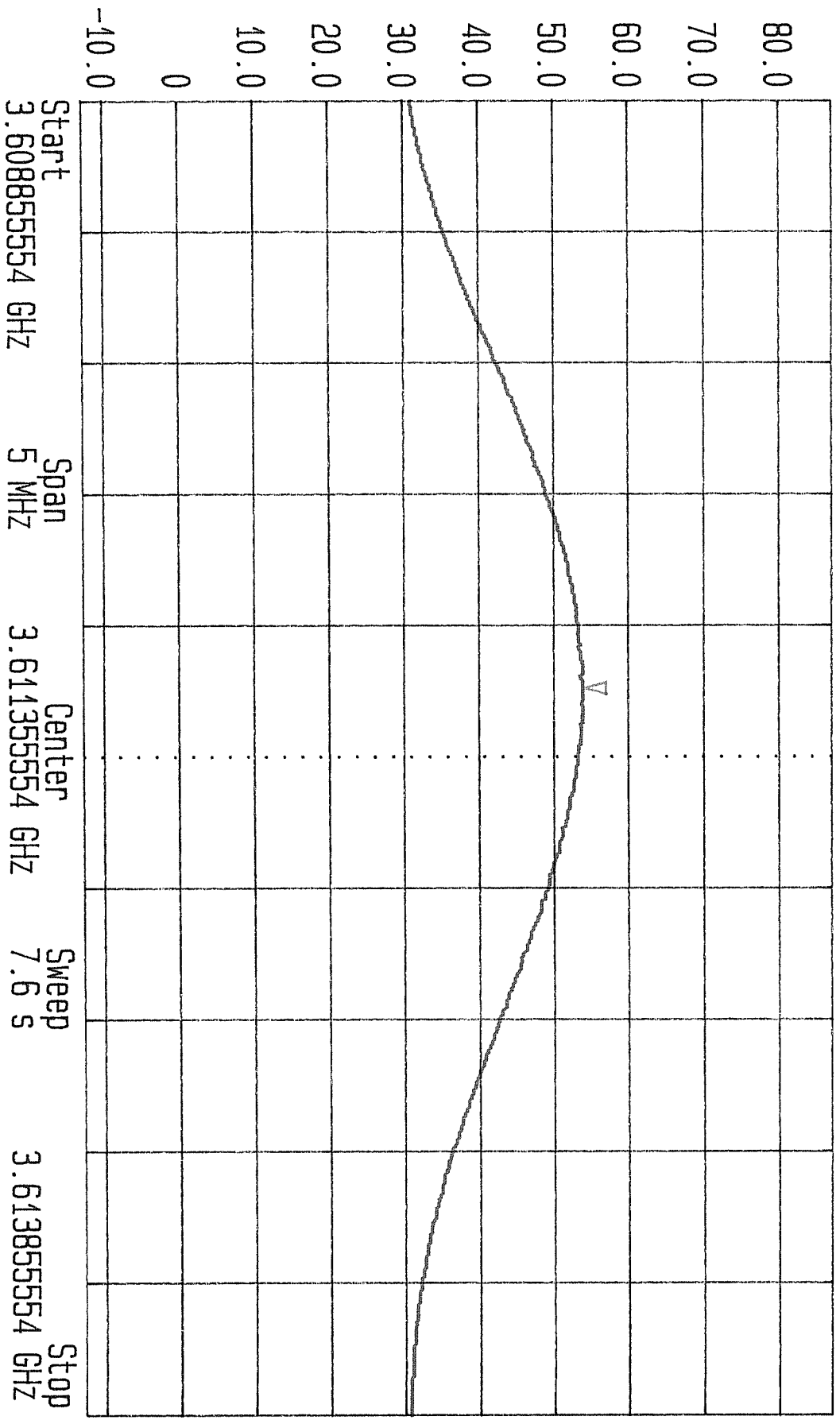


Start 3.60856111 GHz Span 5 MHz Center 3.61106111 GHz Sweep 20 ms Stop 3.61356111 GHz



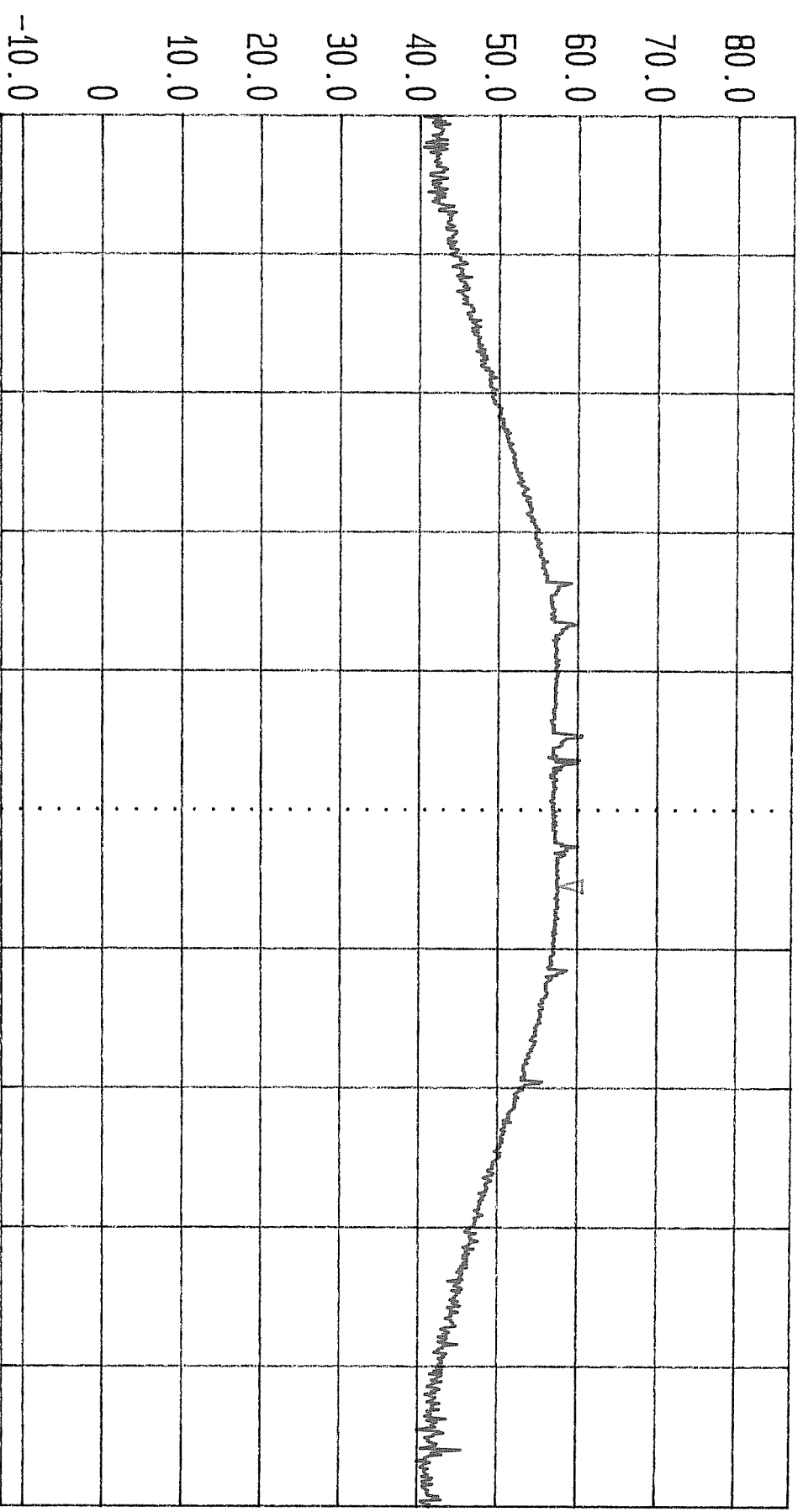
Date 19. May. '04 Time 10:17:07
 Ref. Lvl 87.00 dBµV
 Marker 3.611099 GHz

Res. Bw 1.0 MHz [3dB]
 TG. Lvl
 CF. Stp
 Vid. Bw 10 Hz
 RF. Att off
 Unit [dBµV]





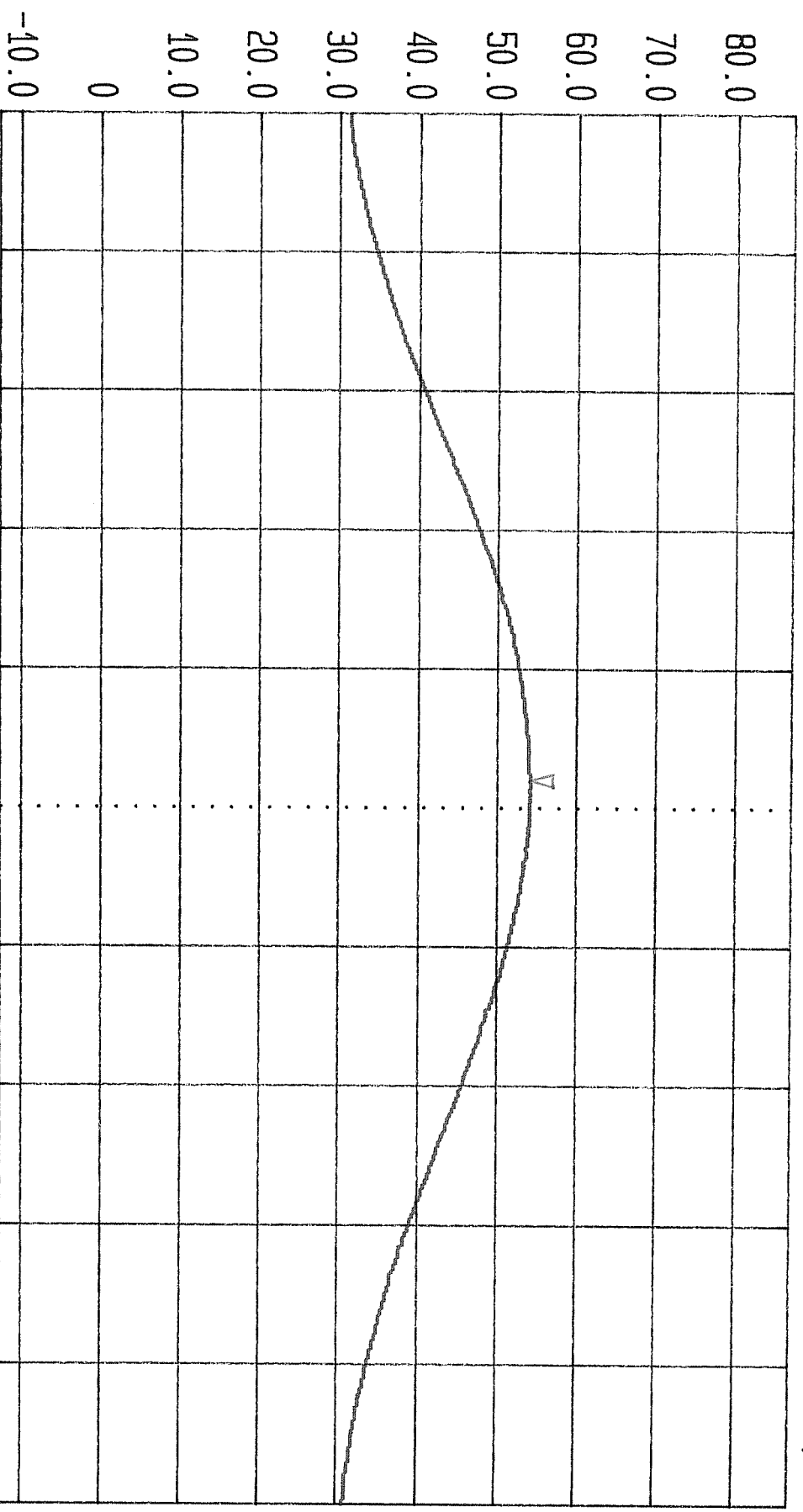
Date 19. May. '04 Time 10:22:03 Res. Bw 1.0 MHz [3dB]
 Ref. Lvl 87.00 dB μ V Marker 57.57 dB μ V CF. Stp off Vid. Bw 1 MHz
 RF. Att Unit [dB μ V]



Start 4.51145554 GHz Span 5 MHz Center 4.51395554 GHz Sweep 20 ms Stop 4.51645554 GHz



Date 19.May.'04 Time 10:25:33 Res.Bw 1.0 MHz [3dB]
Ref.Lvl 87.00 dB μ V Marker 54.22 dB μ V CF.Lvl 16.Lvl 902.600 MHz off Vid.Bw 10 Hz
Unit [dB μ V]

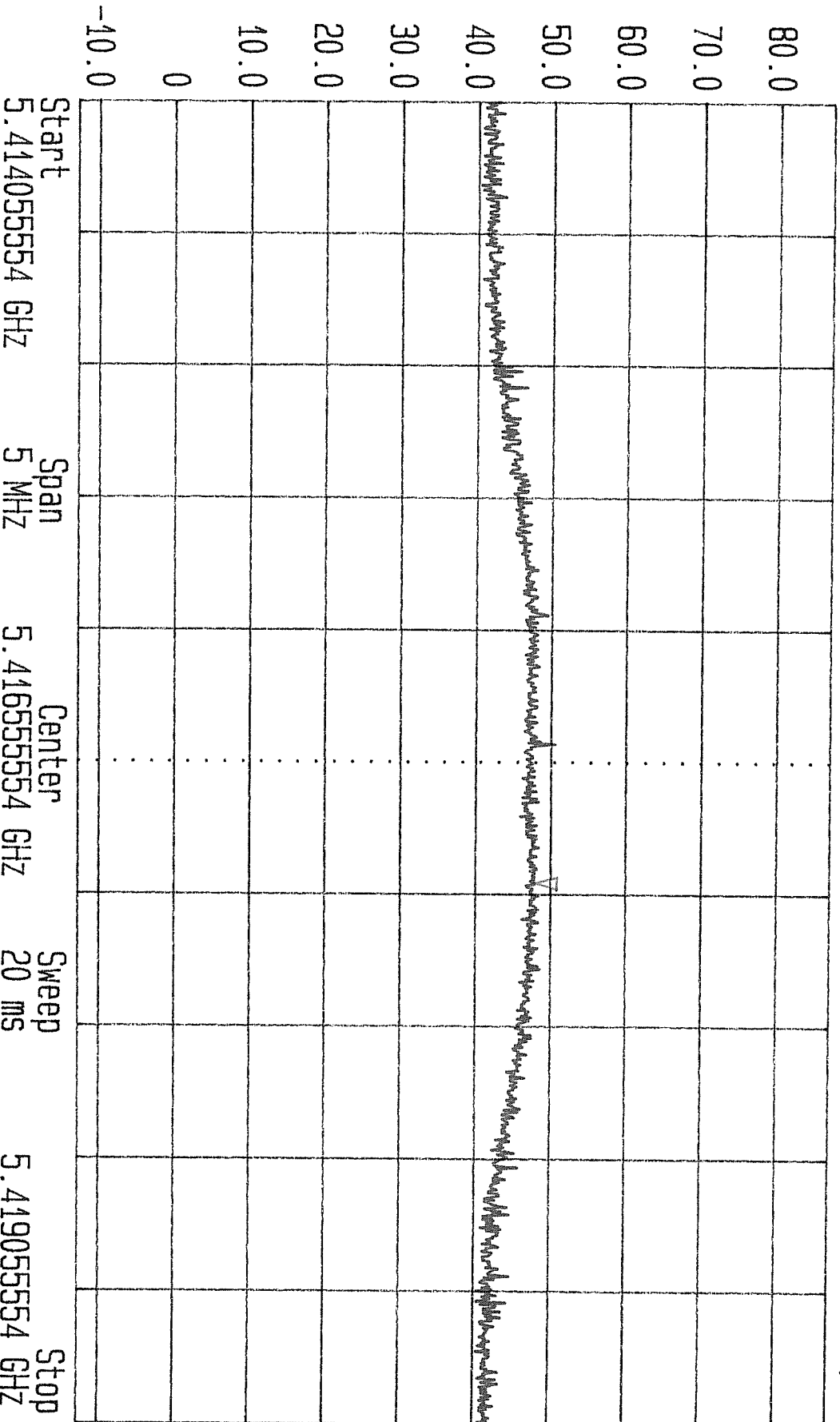


Start 4.511455554 GHz Span 5 MHz Center 4.513955554 GHz Sweep 7.6 s Stop 4.516455554 GHz



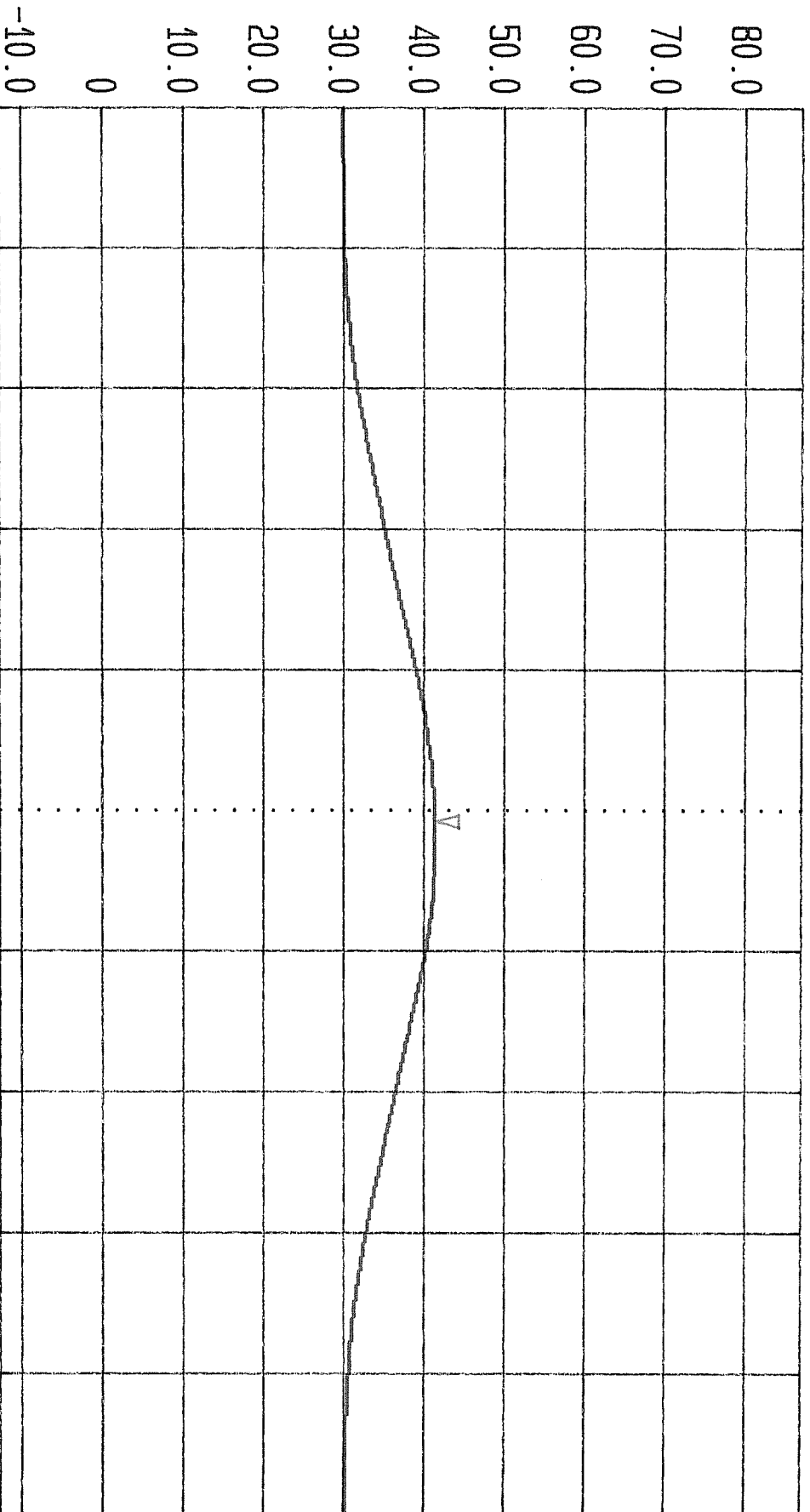
Date 19.May.'04 Time 10:29:55
 Ref.Lvl 87.00 dBuV Marker 47.85 dBuV
 5.417011 GHz

Res.Bw 1.0 MHz [3dB]
 TG.Lvl 1 MHz
 CF.Stp off
 902.600 MHz
 Vid.Bw 1 MHz
 RF.Att 10 dB
 Unit [dBuV]





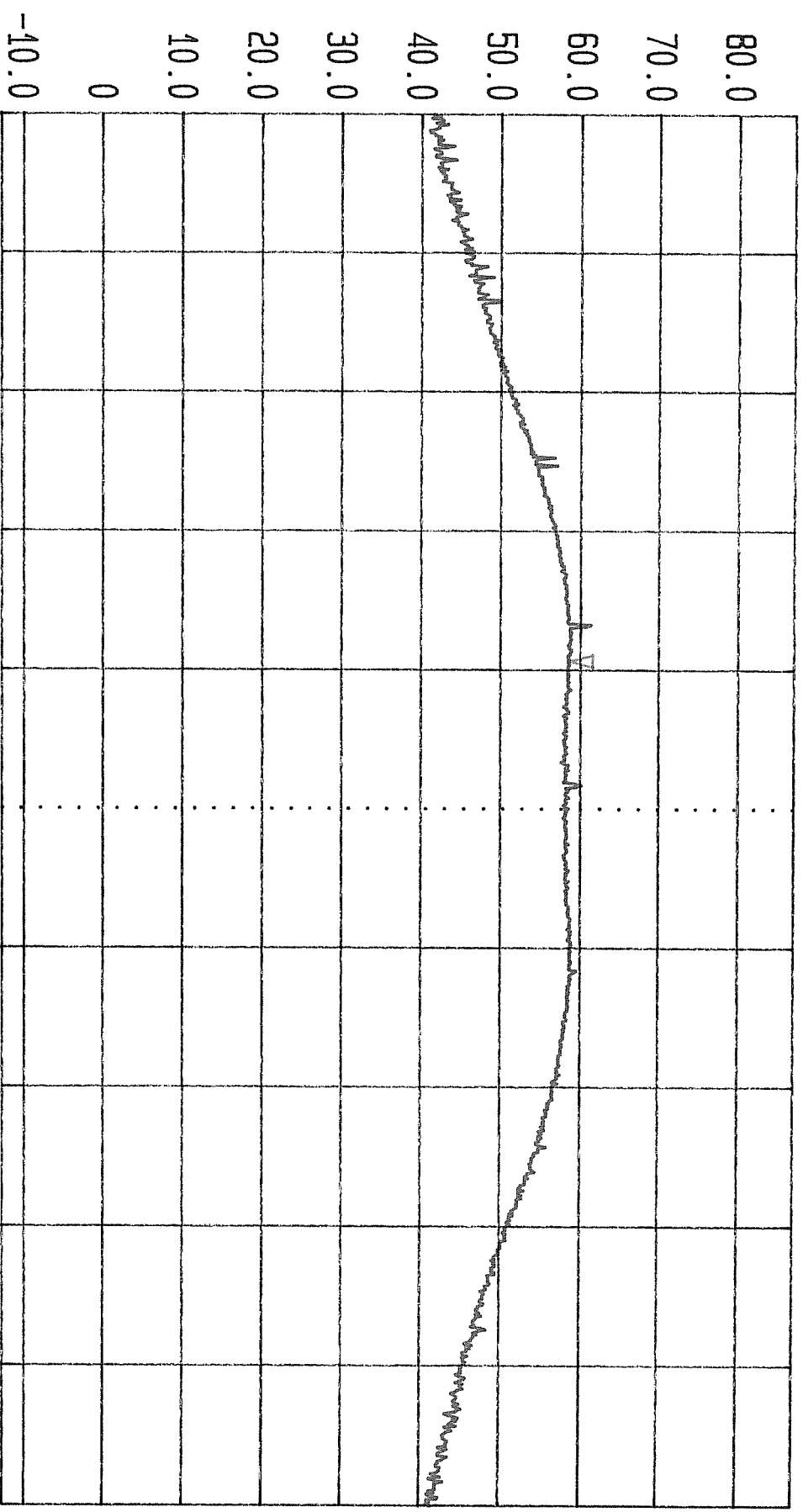
Date 19.May.'04 Time 10:33:15 Res.Bw 1.0 MHz [3dB] Vid.Bw 10 Hz
 Ref.Lvl 87.00 dBuV Marker 41.60 dBuV CF.Stp off RF.Att 10 dB
 5.416599 GHz



Start 5.414055554 GHz Span 5 MHz Center 5.416555554 GHz Sweep 7.6 s Stop 5.419055554 GHz



Date 19.May.'04 Time 11:06:13 Res.Bw 1.0 MHz [3dB]
 Ref.Lvl 87.00 dB μ V Marker 58.77 dB μ V TG.Lvl off Vid.Bw 1 MHz
 CF.Stp 6.318849 GHz RF.Att Unit [dB μ V]



Start 6.316883332 GHz Span 5 MHz Center 6.319383332 GHz Sweep 20 ms Stop 6.321883332 GHz

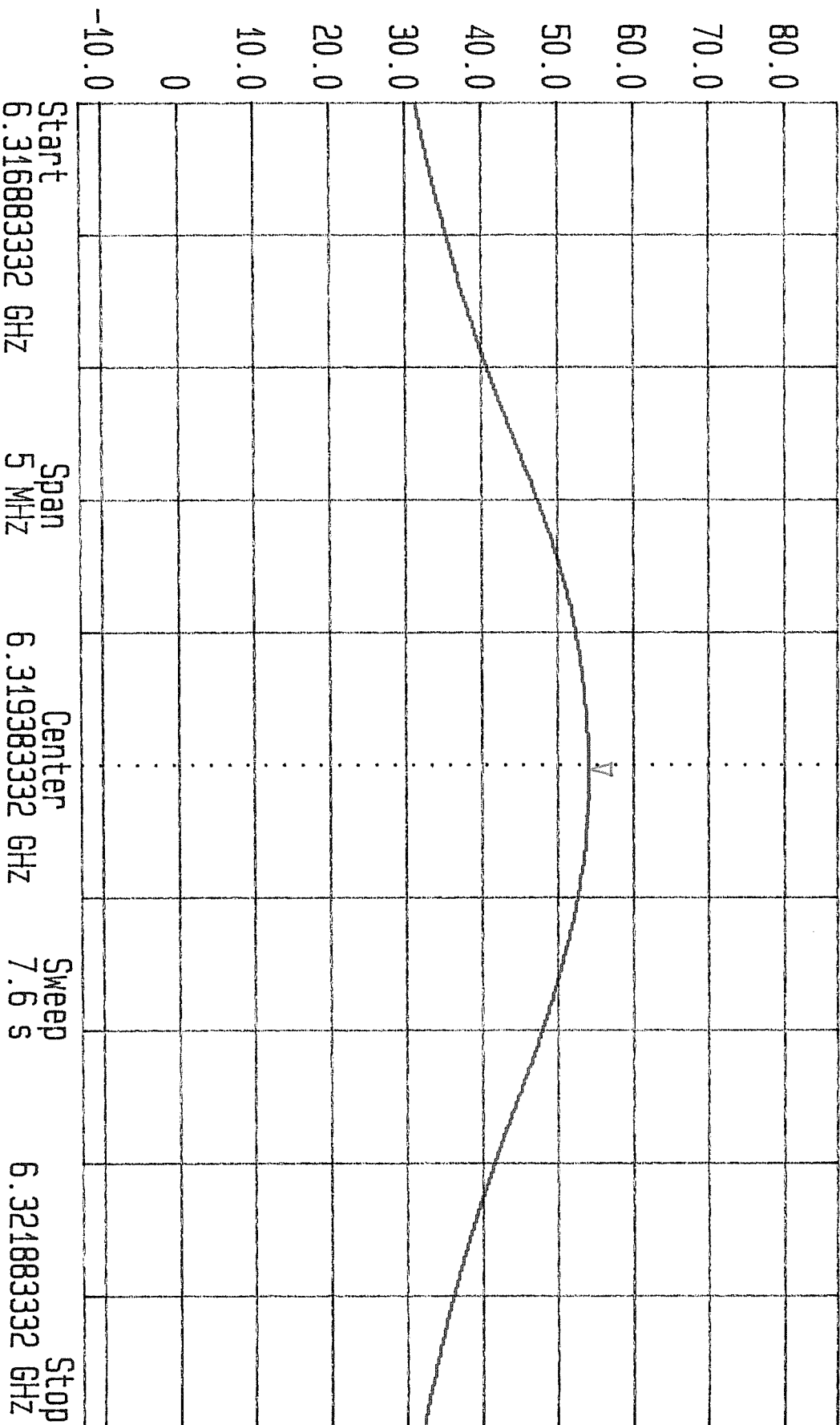


Date 19.May.'04 Time 11:09:48
Ref.Lvl1 87.00 dBuV
Marker 54.30 dBuV
6.319405 GHz

Res.BW 1.0 MHz [3dB]
TG.Lvl1
CF.Strp

1.0 MHz [3dB]
off
902.600 MHz

Vid.BW 10 Hz
RF.Att Unit
10 dB [dBuV]



Start
6.316883332 GHz

Span
5 MHz

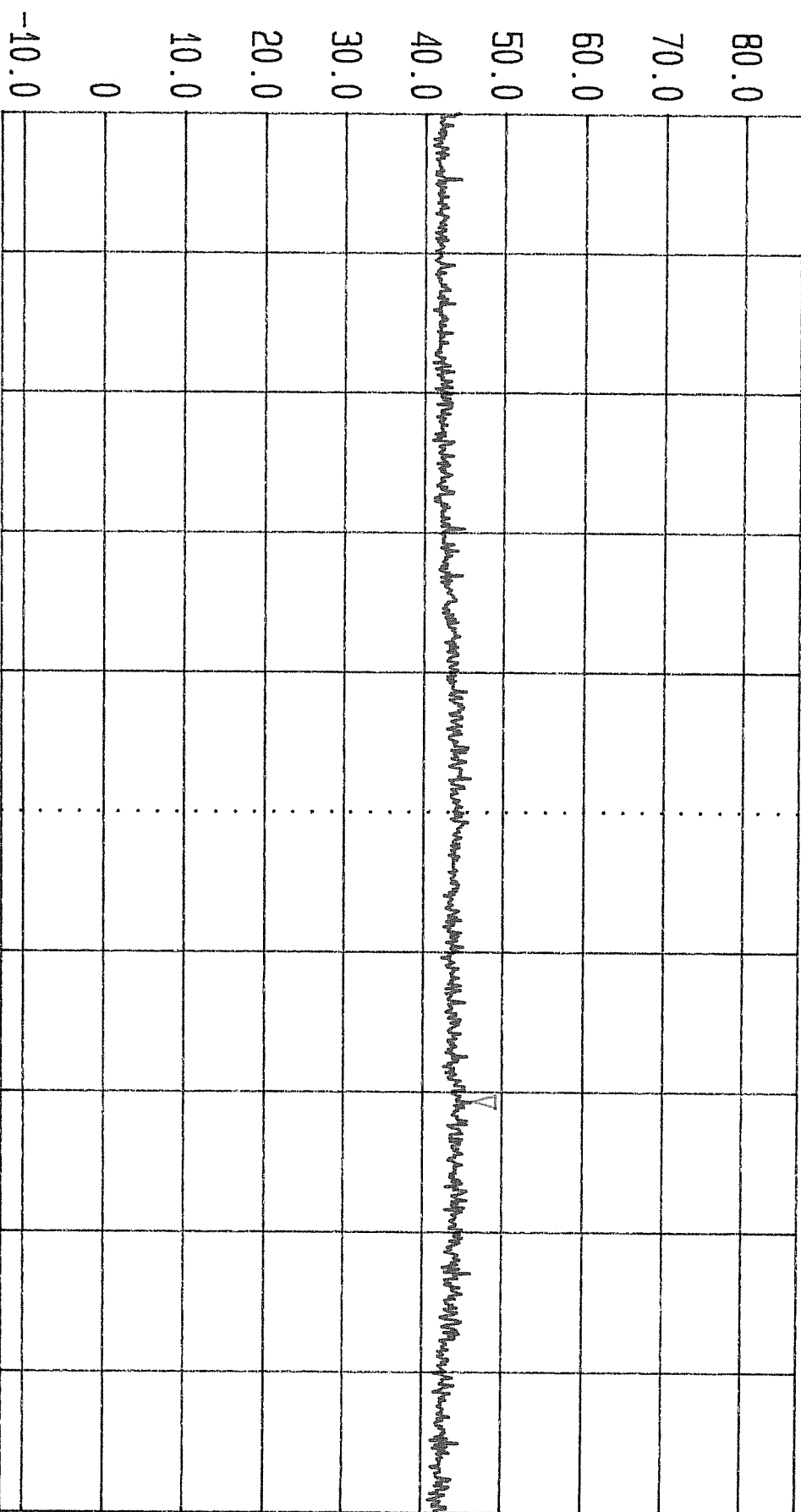
Center
6.319383332 GHz

Sweep
7.6 s

Stop
6.321883332 GHz



Date 19. May. '04 Time 10:50:03 Res. Bw 1.0 MHz [3dB]
 Ref. Lvl 87.00 dBμV Marker 46.25 dBμV CF. Strp off Vid. Bw 1 MHz
 RF. Att Unit [dBμV]



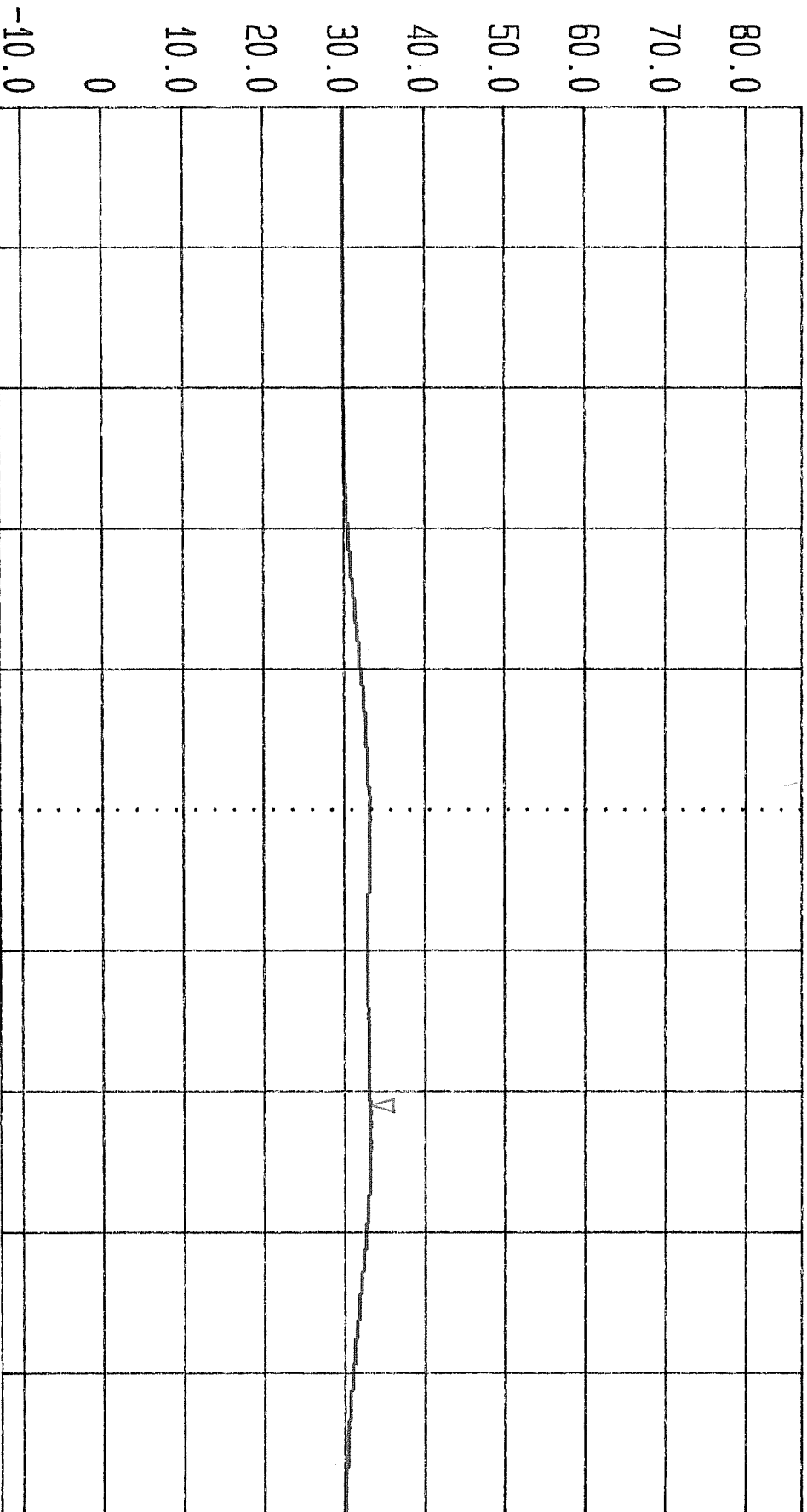
Start 8.121855554 GHz Span 5 MHz Center 8.124355554 GHz Sweep 20 ms Stop 8.126855554 GHz



Date 19. May. '04 Time 10:53:31
 Ref. Lvl 87.00 dBμV Marker 33.37 dBμV
 8.125411 GHz

Res. Bw 1.0 MHz [3dB]
 TG. Lvl off
 CF. Stp 902.600 MHz

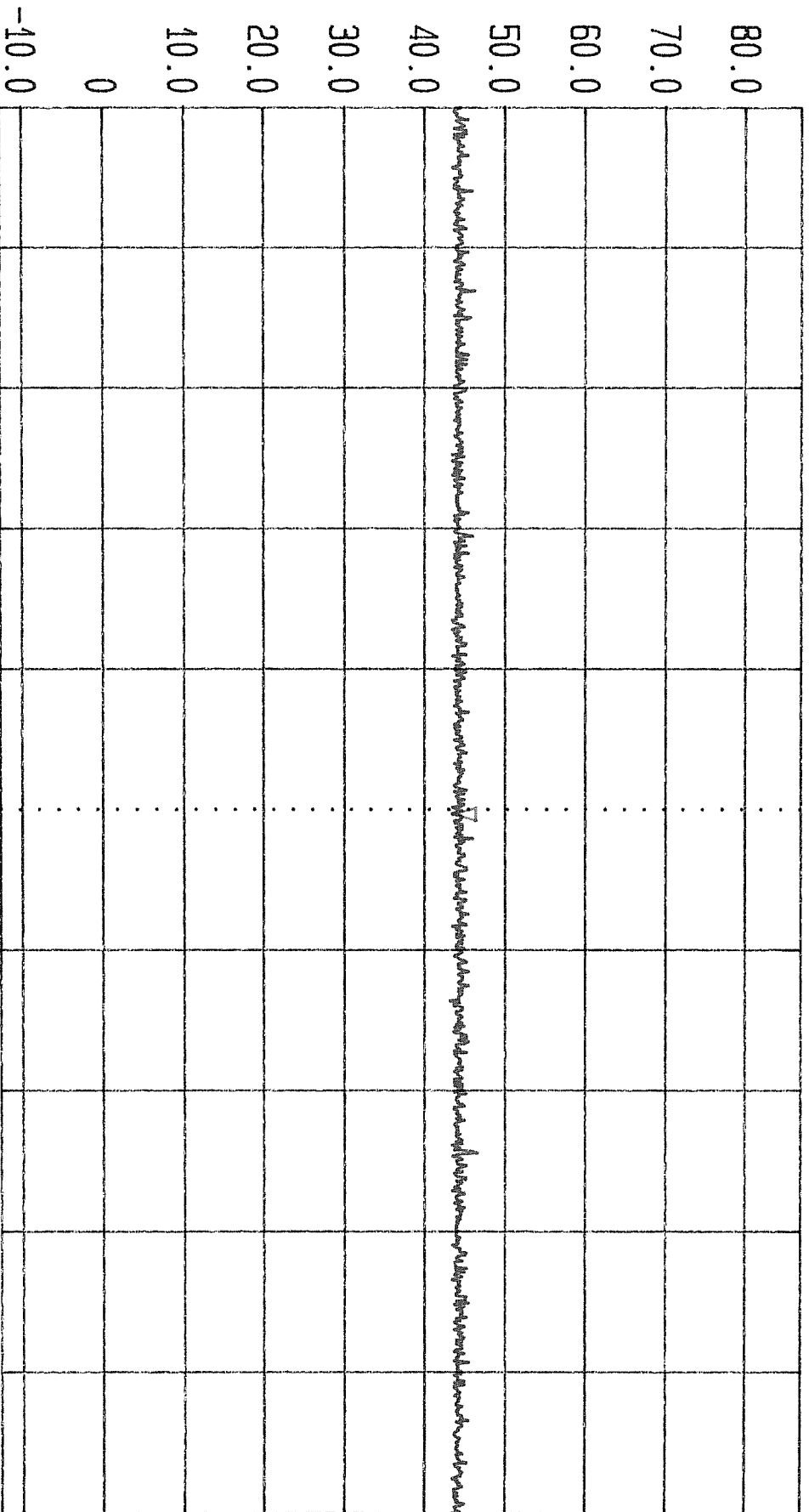
Vid. Bw 10 Hz
 RF: Att Unit [dBμV]



Start 8.121855554 GHz Span 5 MHz Center 8.124355554 GHz Sweep 7.6 s Stop 8.126855554 GHz



Date 19.May.'04 Time 10:58:15 Res.Bw 1.0 MHz [3dB]
 Ref.Lvl 87.00 dBuV Marker 9.026505 GHz TG.Lvl 1 MHz
 CF.Strp 902.600 MHz off Vid.Bw 1 MHz
 RF.Att Unit [dBuV]



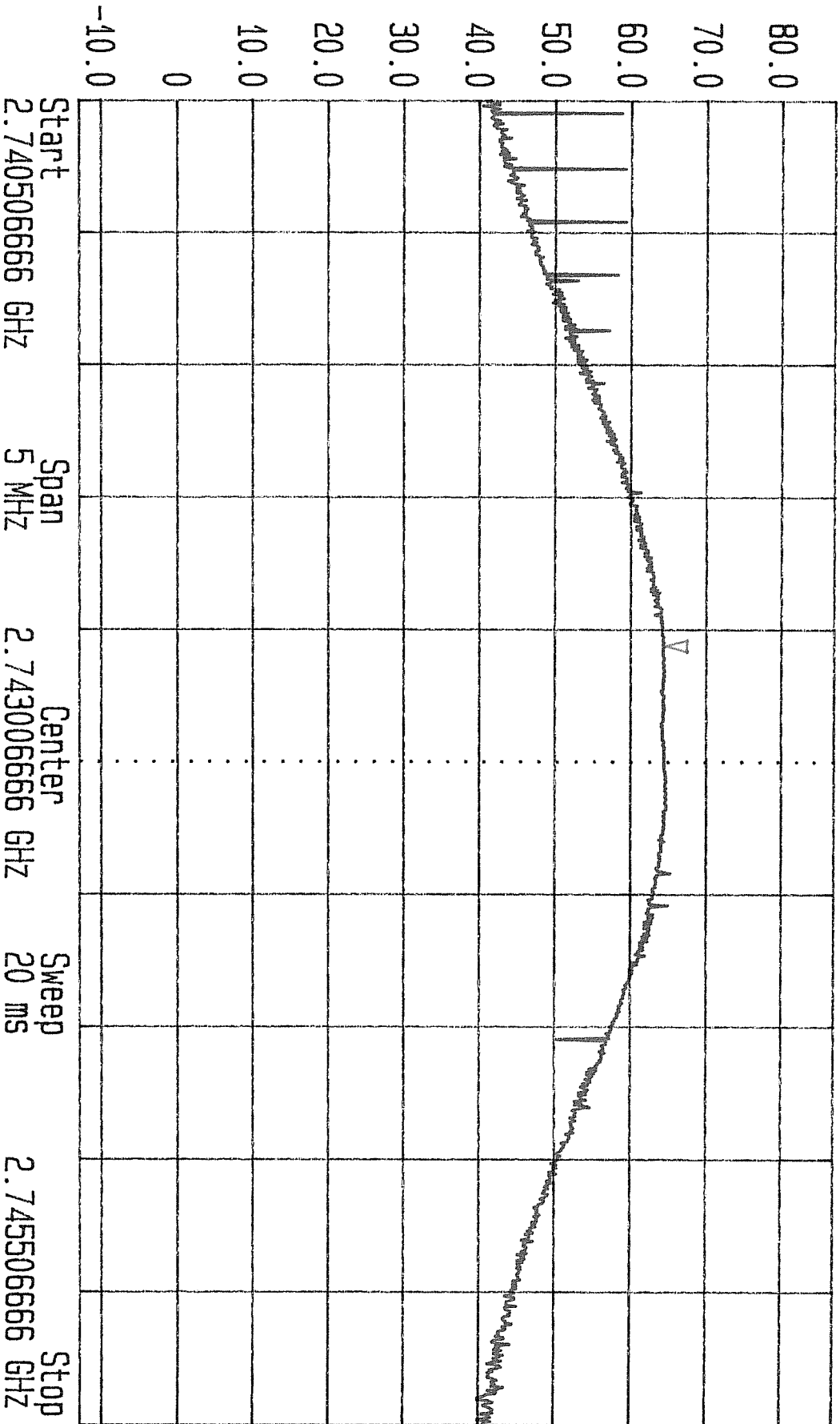
Start 9.023988888 GHz Span 5 MHz Center 9.026488888 GHz Sweep 20 ms Stop 9.028988888 GHz



Middle Channel

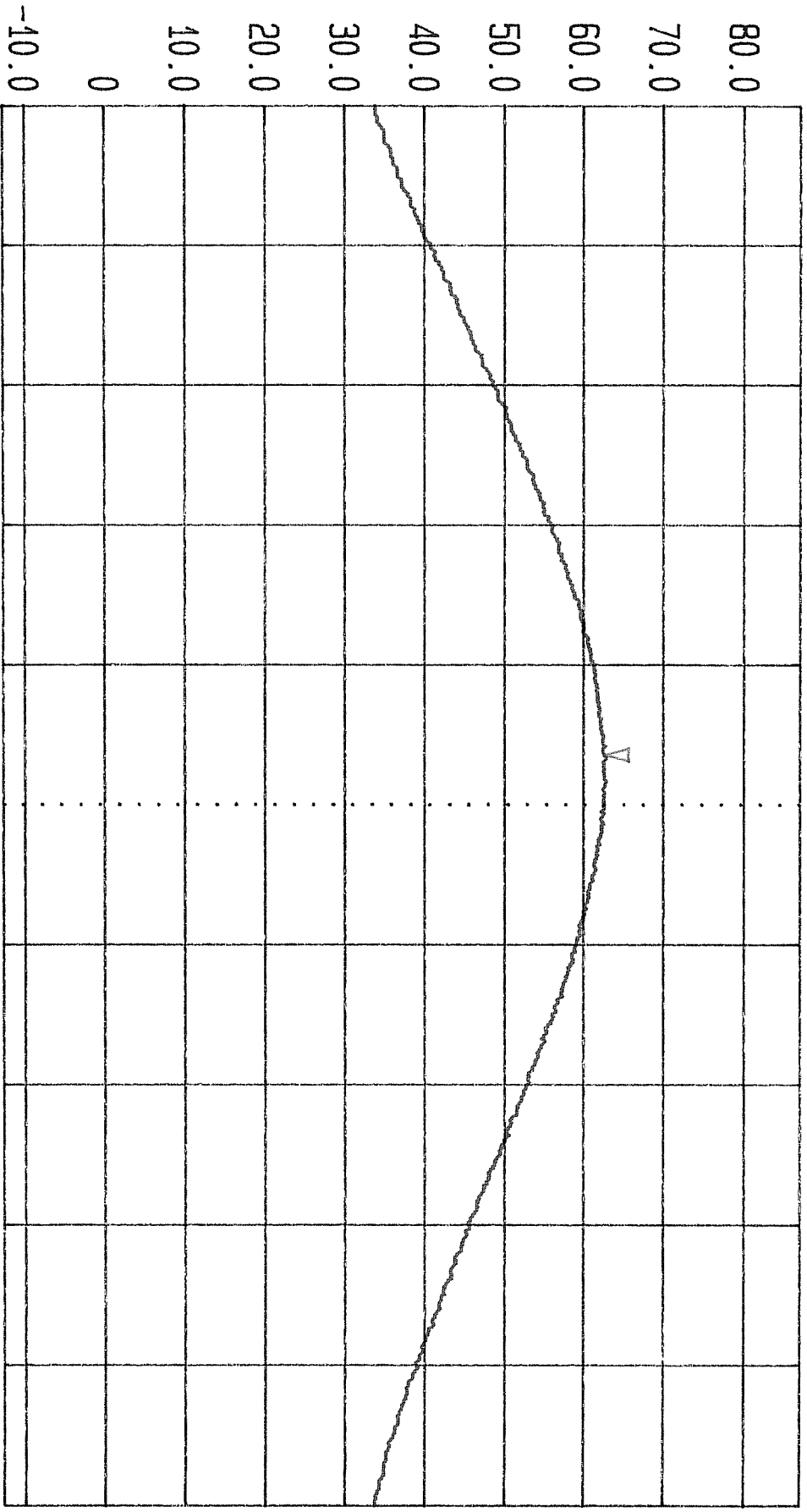


Date 19.May.'04 Time 12:29:41 Res.Bw 1.0 MHz [3dB]
 Ref.Lvl 87.00 dBuV Marker 64.76 dBuV CF.Stp 16.Lvl off Vid.Bw 1 MHz
 2.742573 GHz 914.740 MHz RF.Att Unit [dBuV]





Date 19.May.'04 Time 12:33:00 Res.Bw 1.0 MHz [3dB] Vid.Bw 10 Hz
 Ref.Lvl 87.00 dBuV Marker 62.70 dBuV CF.Stp TG.Lvl
 2.742834 GHz 914.740 MHz off RF.Att 10 dB
 Unit [dBuV]

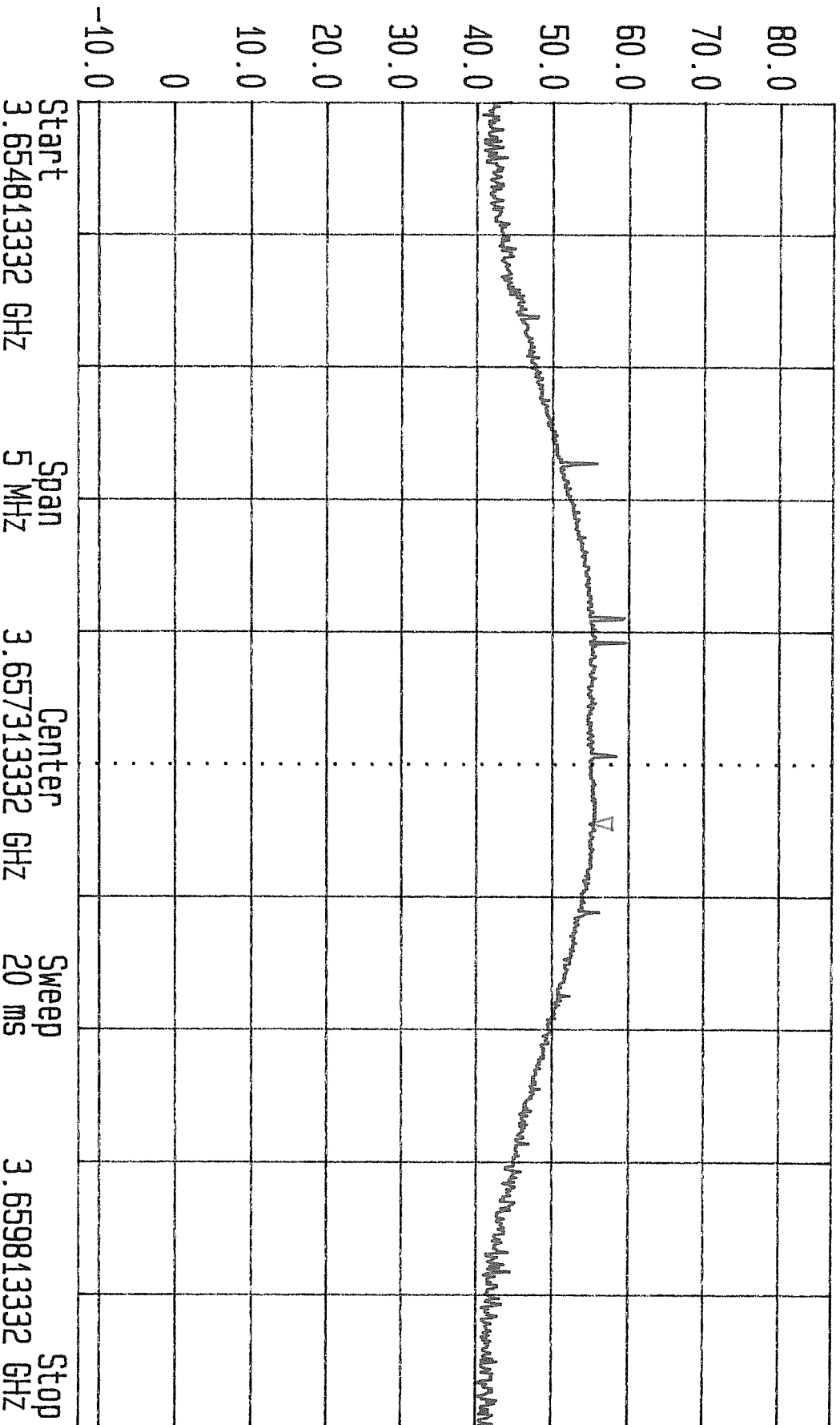


Start 2.740506666 GHz Span 5 MHz Center 2.743006666 GHz Sweep 7.6 s Stop 2.745506666 GHz



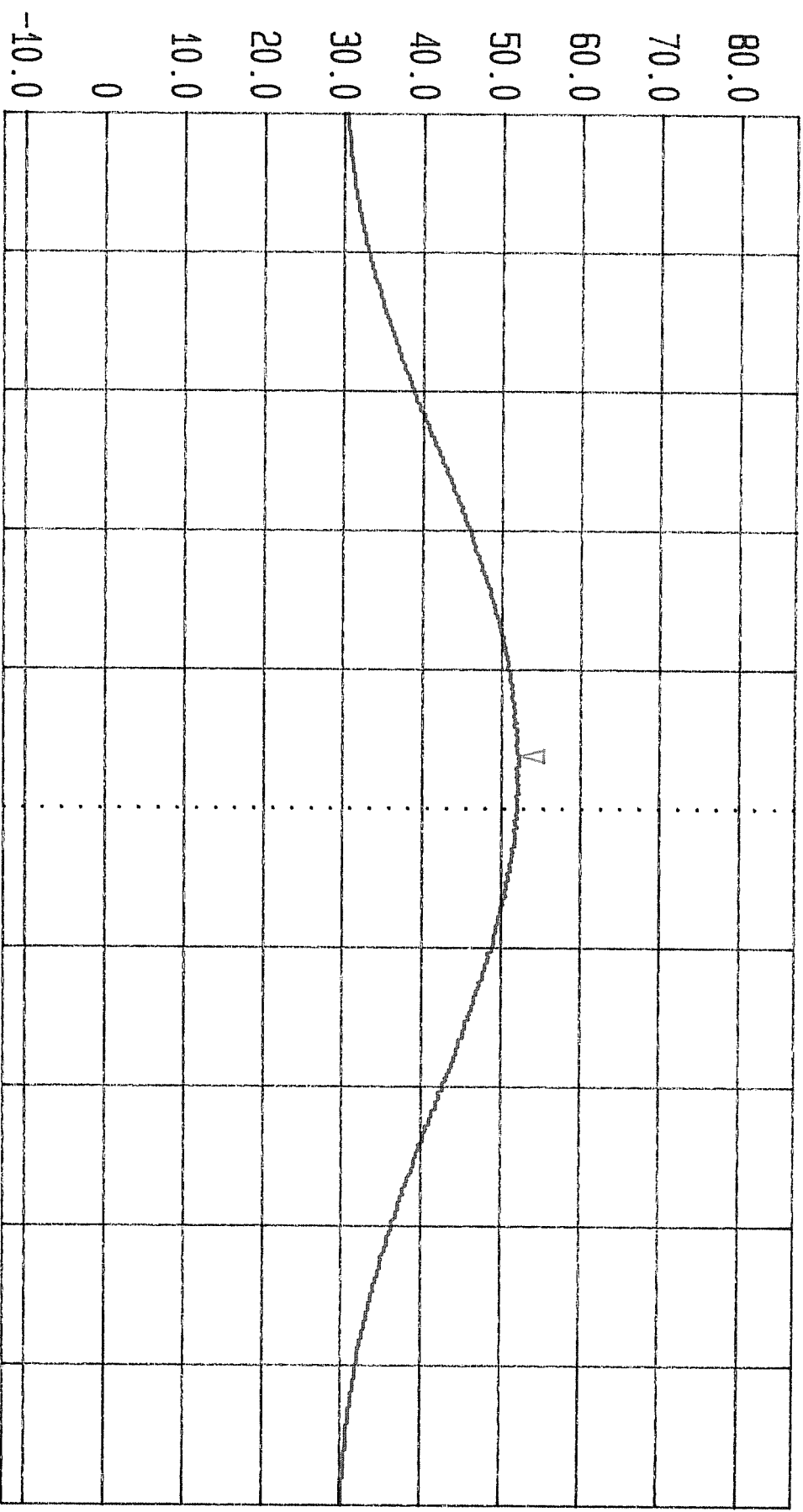
Date 19. May. '04 Time 12:37:53
Ref. Lvl 87.00 dB μ V
Marker 3.657541 GHz

Res. Bw 1.0 MHz [3dB]
TG. Lvl off
CF. Stp 914.740 MHz
Vid. Bw 1 MHz
RF. Att 10 dB
Unit [dB μ V]





Date 19.May.'04 Time 12:41:38 Res.Bw 1.0 MHz [3dB]
Ref.Lvl 87.00 dBuV Marker 52.32 dBuV CF.Stp 914.740 MHz off Vid.Bw 10 Hz
3.657129 GHz RF.Att Unit [dBuV]



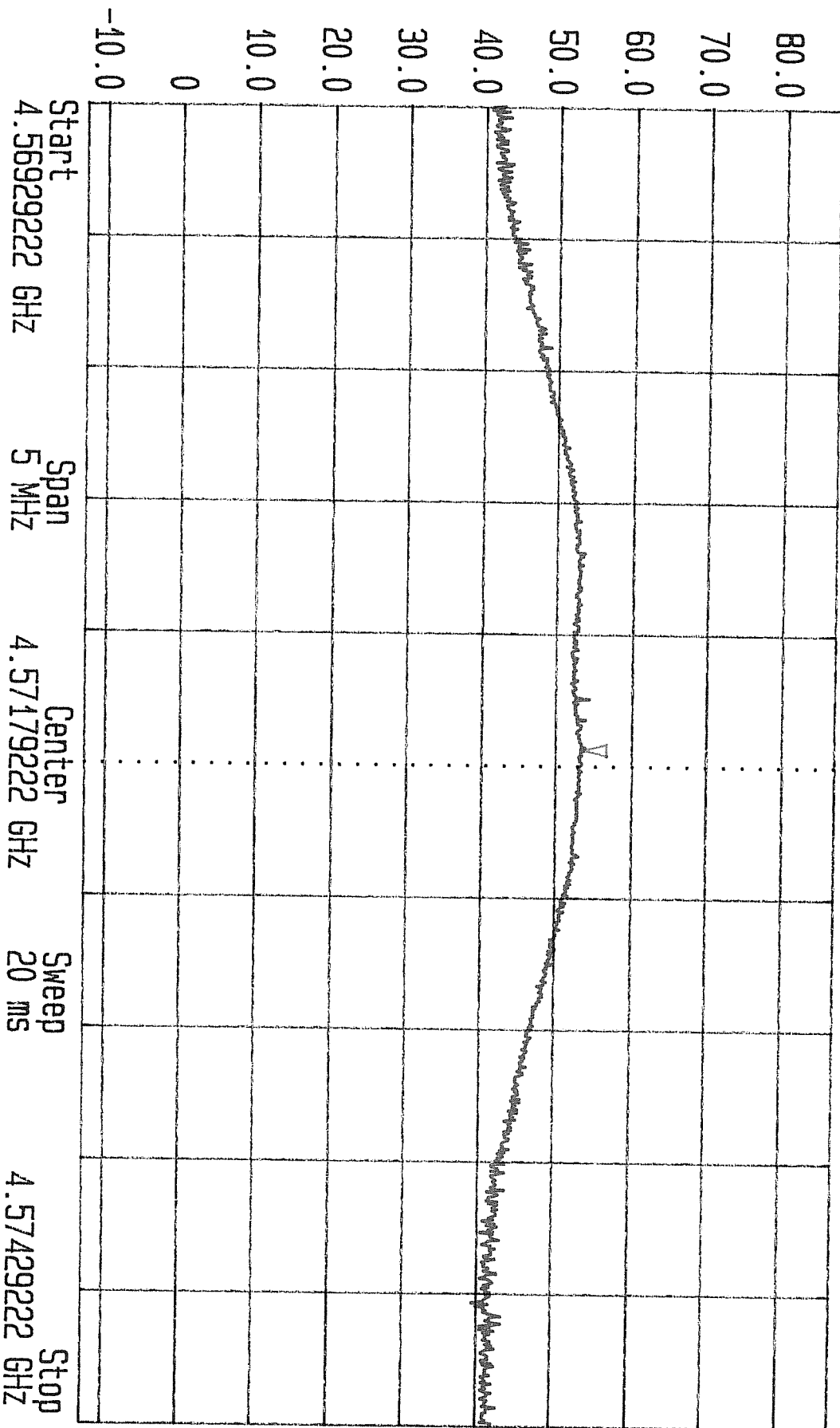
Start 3.654813332 GHz Span 5 MHz Center 3.657133332 GHz Sweep 7.6 s Stop 3.659813332 GHz



Date 19. May. '04 Time 13:17:37
Ref. Lvl 87.00 dB μ V Marker 53.82 dB μ V
4.571736 GHz

Res. BW 1.0 MHz [3dB]
TG. Lvl off
CF. Stp 914.740 MHz

Vid. BW 1 MHz
RF. Att 10 dB
Unit [dB μ V]



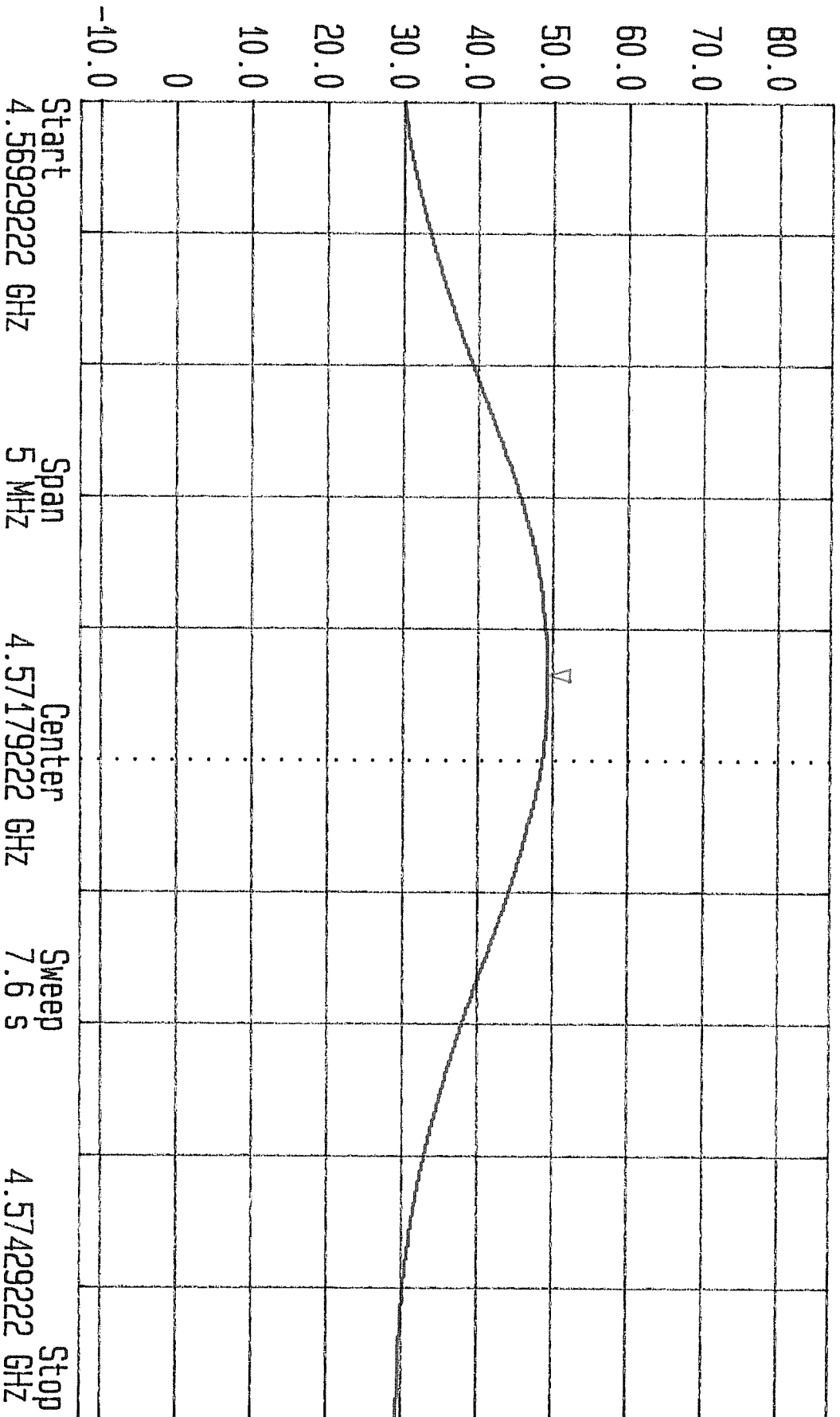


Date 19.May.'04 Time 13:20:52
Ref.Lvl 87.00 dBuV
Marker 49.40 dBuV
4.571475 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl
CF.Stp

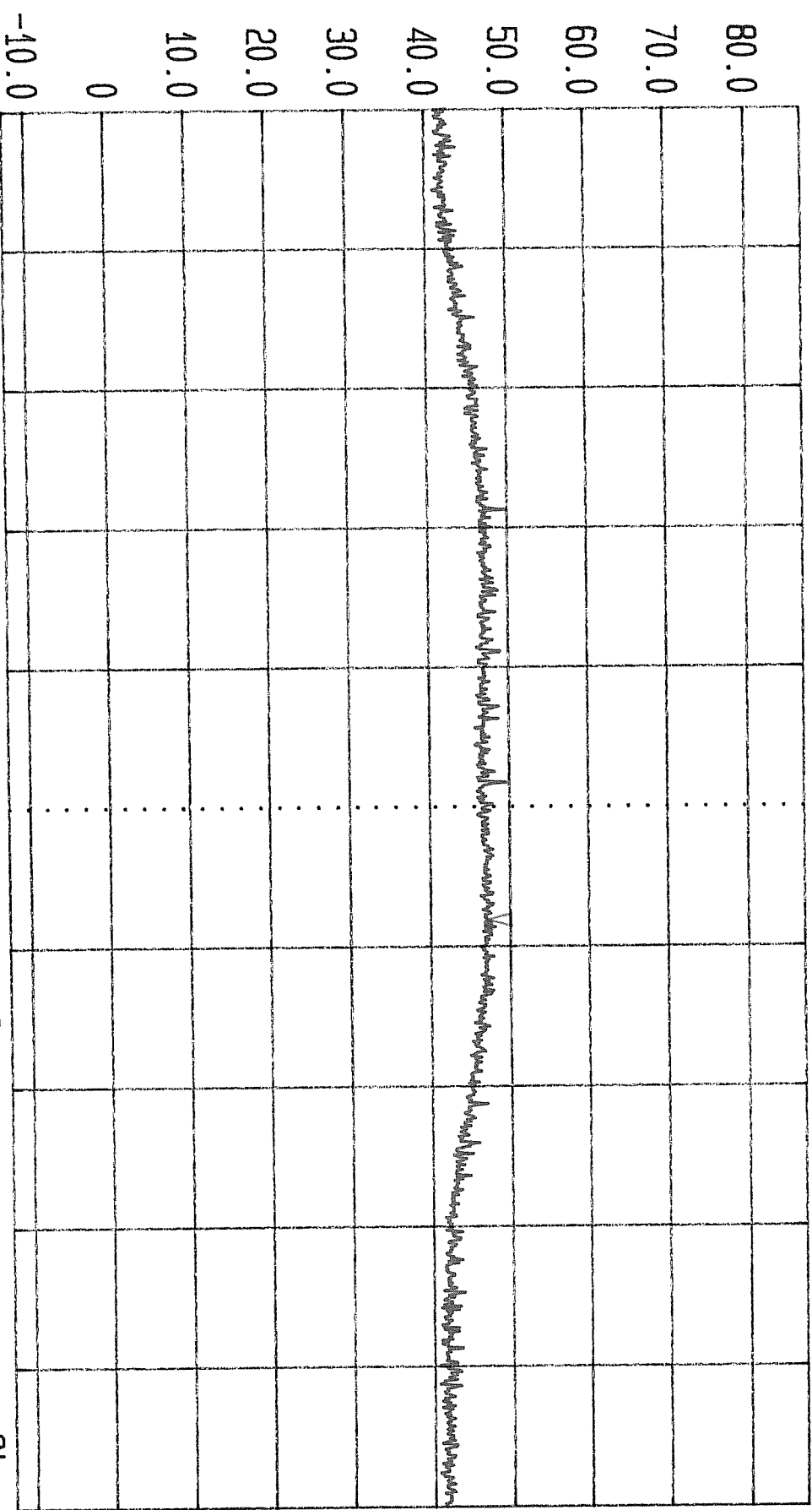
1.0 MHz [3dB]
off
914.740 MHz

Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBuV]





Date 19.May.'04 Time 12:55:22 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 Ref.Lvl 87.00 dBuV Marker 47.21 dBuV CF.Strp 16.14 MHz off RF:Att 10 dB
 7.315006 GHz 914.740 MHz Unit [dBuV]

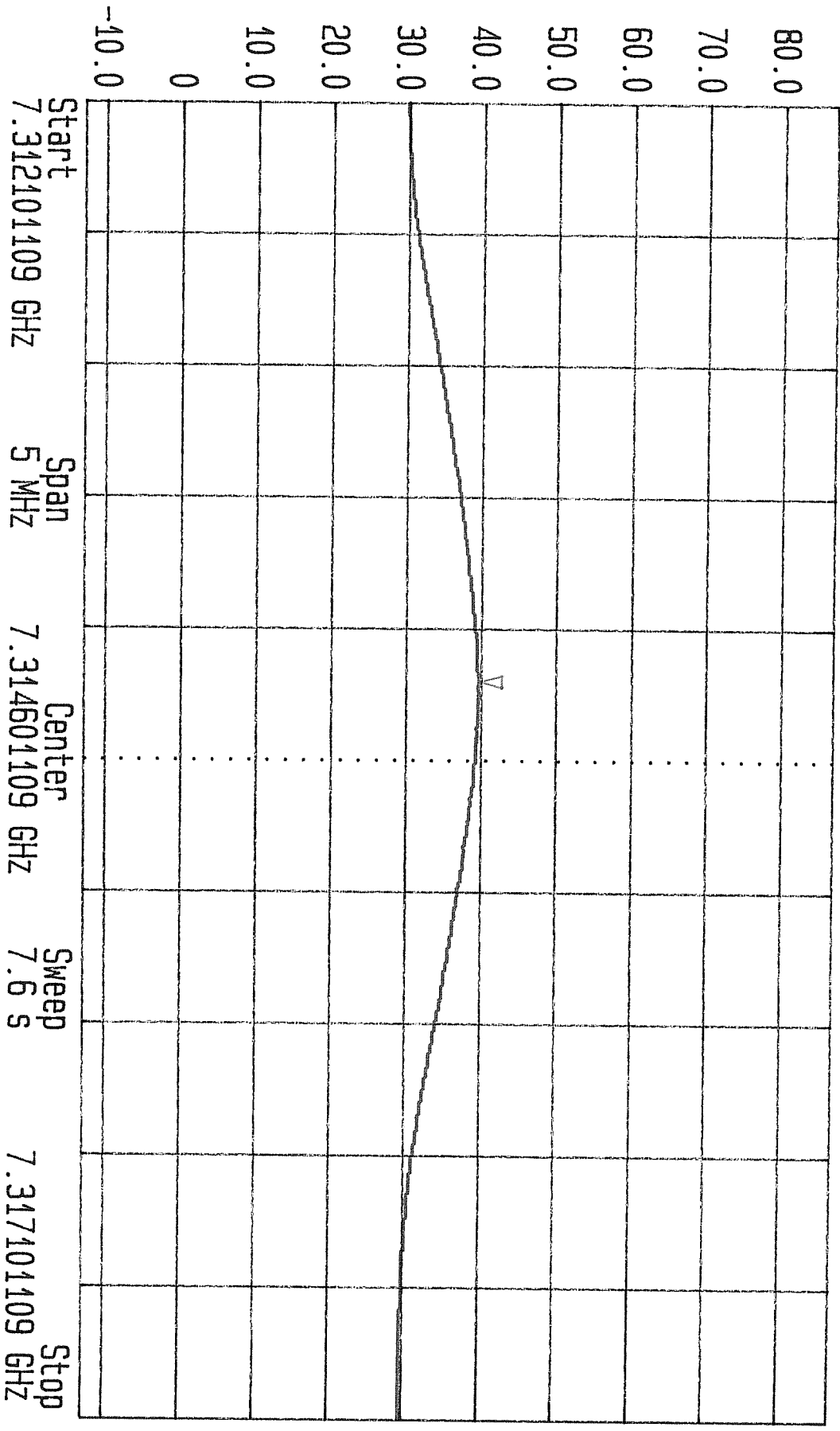


Start 7.312101109 GHz Span 5 MHz Center 7.314601109 GHz Sweep 20 ms Stop 7.317101109 GHz



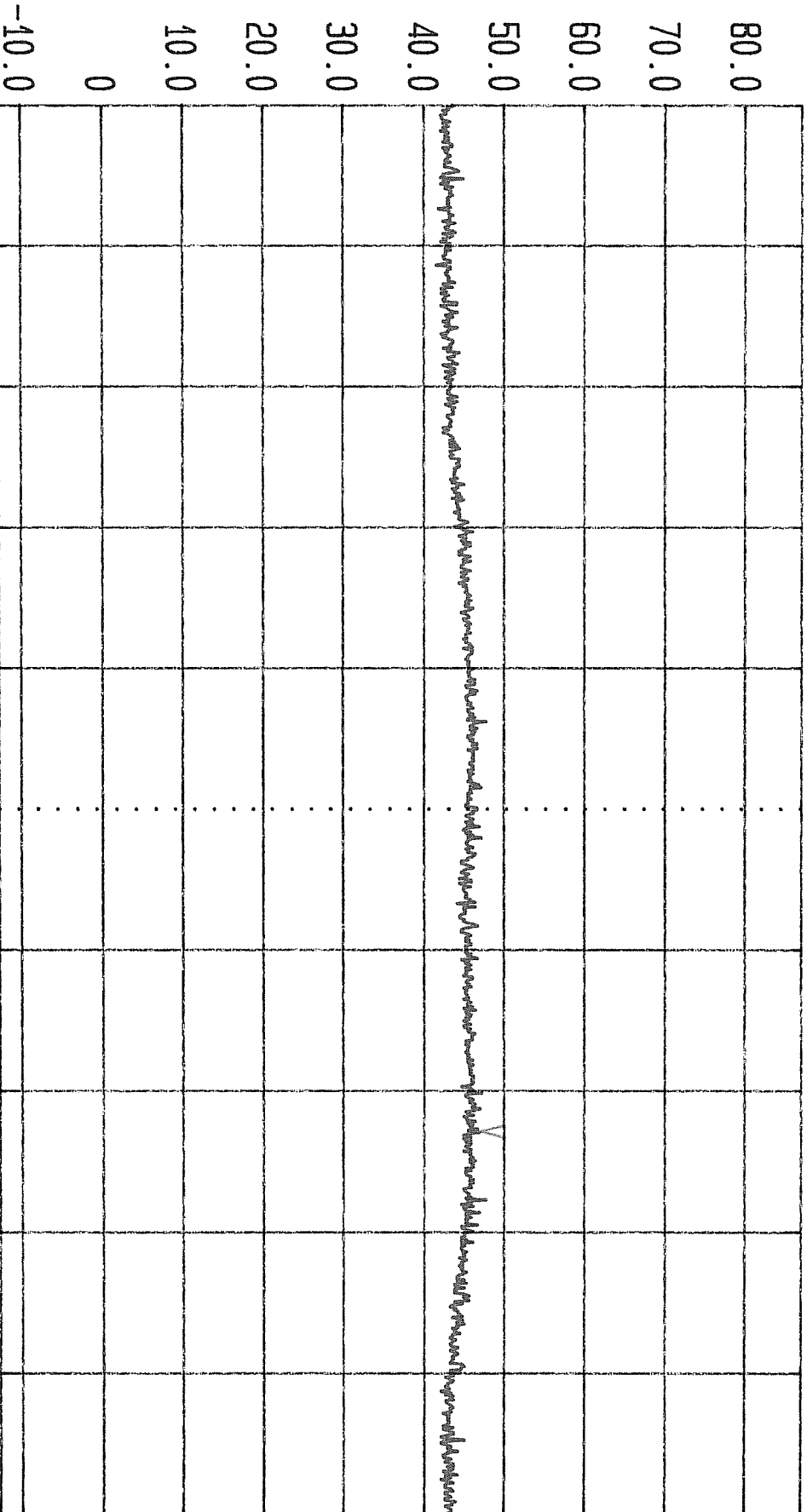
Date 19. May. '04 Time 12:58:39
 Ref. Lvl 87.00 dBuV
 Marker 7.314306 GHz

Res. Bw 1.0 MHz [3dB]
 TG. Lvl 16. Lvl
 CF. Stp off
 914.740 MHz
 Vid. Bw 10 Hz
 RF. Att Unit
 10 dB [dB μ V]





Date 19. May. '04 Time 13:02:53 Res. BW 1.0 MHz [3dB]
 Ref. Lvl 87.00 dBuV Marker 47.21 dBuV CF. Stp 16. Lvl 1
 8.229402 GHz 914.740 MHz off Vid. BW 1 MHz
 RF. Att 10 dB Unit [dBuV]

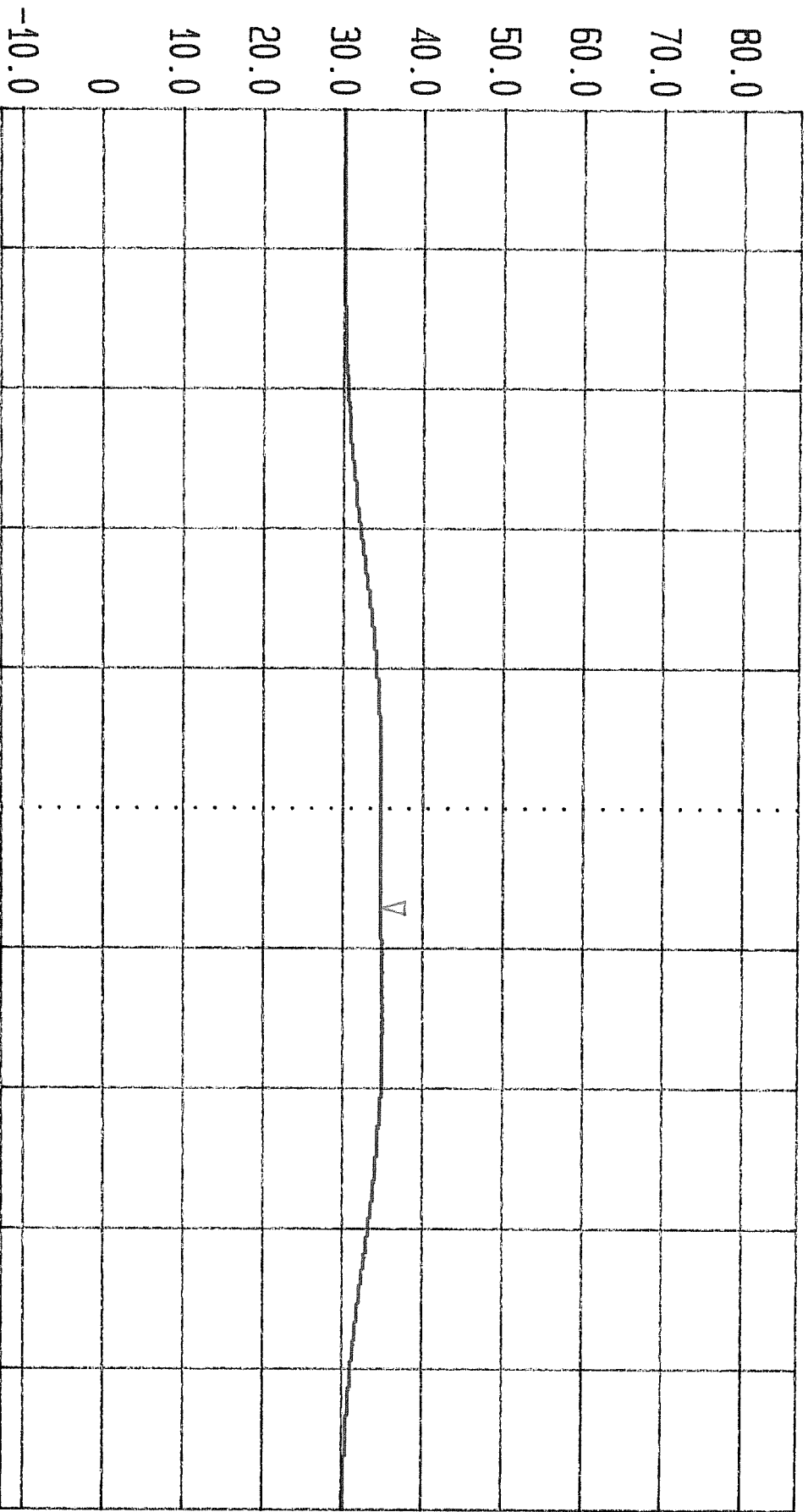


Start 8.22575222 GHz Span 5 MHz Center 8.22825222 GHz Sweep 20 ms Stop 8.23075222 GHz



Date 19.May.'04 Time 13:06:25
 Ref.Lvl 87.00 dBuV
 Marker 8.228613 GHz

Res.BW 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 914.740 MHz
 Vid.BW 10 Hz
 RF.Att 10 dB
 Unit [dBuV]

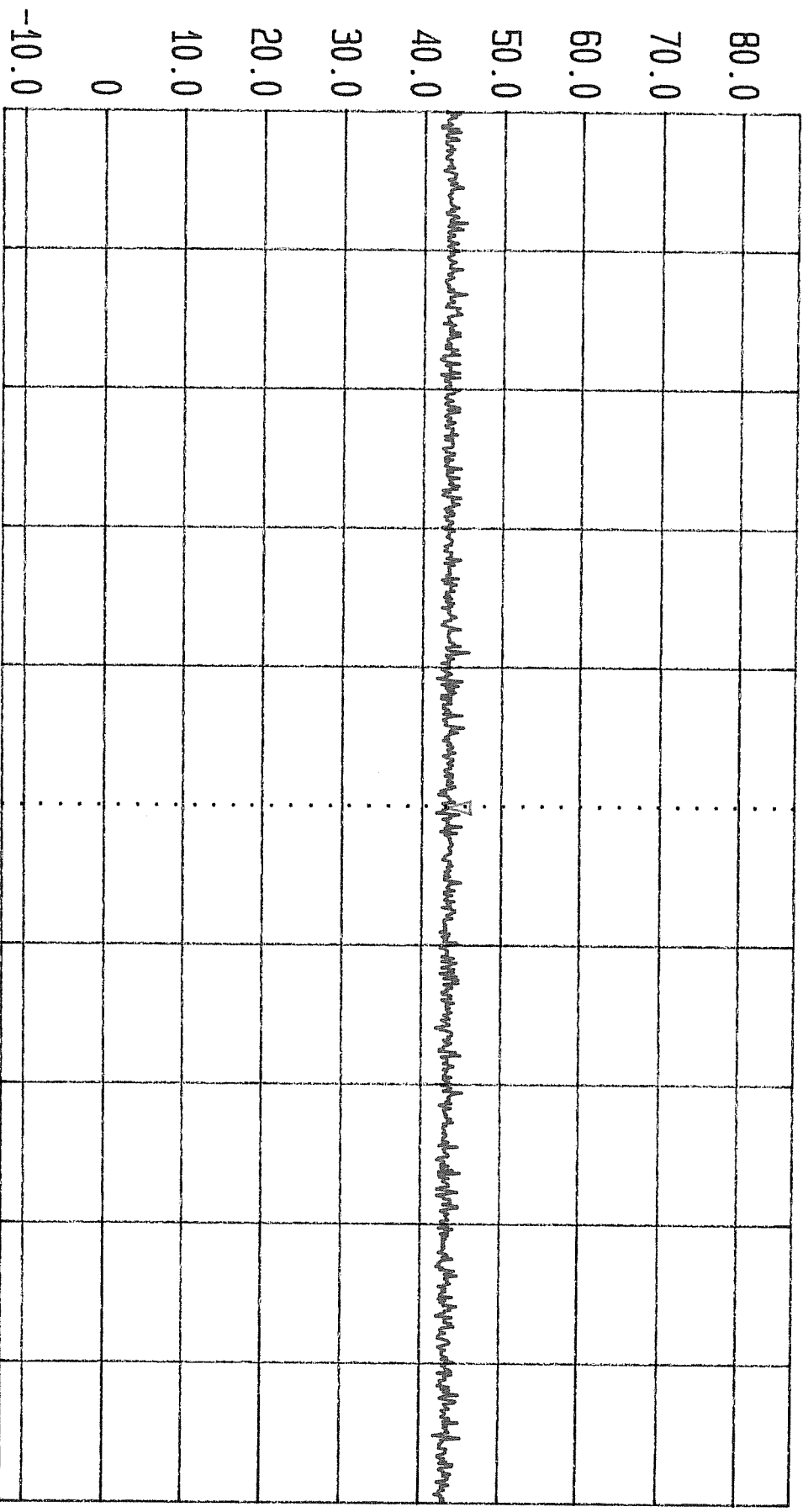


Start 8.22575222 GHz Span 5 MHz Center 8.22825222 GHz Sweep 7.6 s Stop 8.23075222 GHz



Date 19. May. '04 Time 13:09:39
 Ref. Lvl 87.00 dBuV Marker 43.33 dBuV
 9.143003 GHz

Res. Bw 1.0 MHz [3dB]
 TG. Lvl off
 CF. Stp 914.740 MHz
 Vid. Bw 1 MHz
 RF. Att 10 dB
 Unit [dBuV]



Start 9.14049222 GHz Span 5 MHz Center 9.14299222 GHz Sweep 20 ms Stop 9.14549222 GHz



High Channel