

FCC Part 15 Certification **Test Report**

5.8 GHz Digital Transmission System Radio Module

FCC ID: HSW-5811M

FCC Rule Part: 15.247

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Data Plots B

Radiated Spurious Emissions

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Low
Antenna: 0dBi Omni



Date 13.Aug.'03 Time 01:58:07

Ref.Lvl 87.00 dBuV

Marker 32.84 dBuV

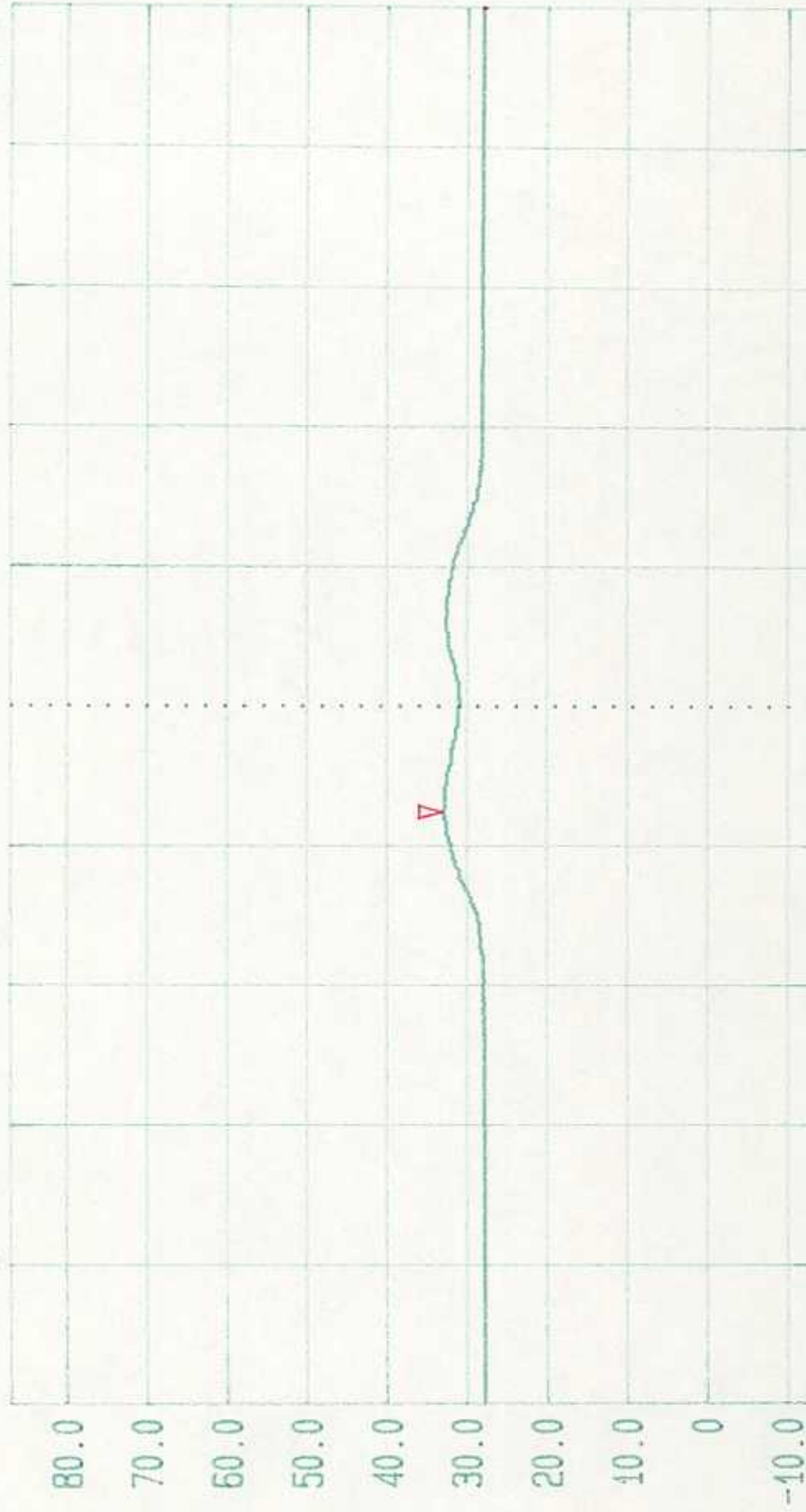
11.45906 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.730 GHz

Vid.Bw
AF.Att
Unit

10 Hz
10 dB
[dBuV]



Start
11.45481 GHz

Span
10 MHz

Center
11.45981 GHz

Sweep
15.0 s

Stop
11.46481 GHz



Date 06.Aug.'03 Time 23:46:01

Ref.Lvl
87.00 dBuV

Marker

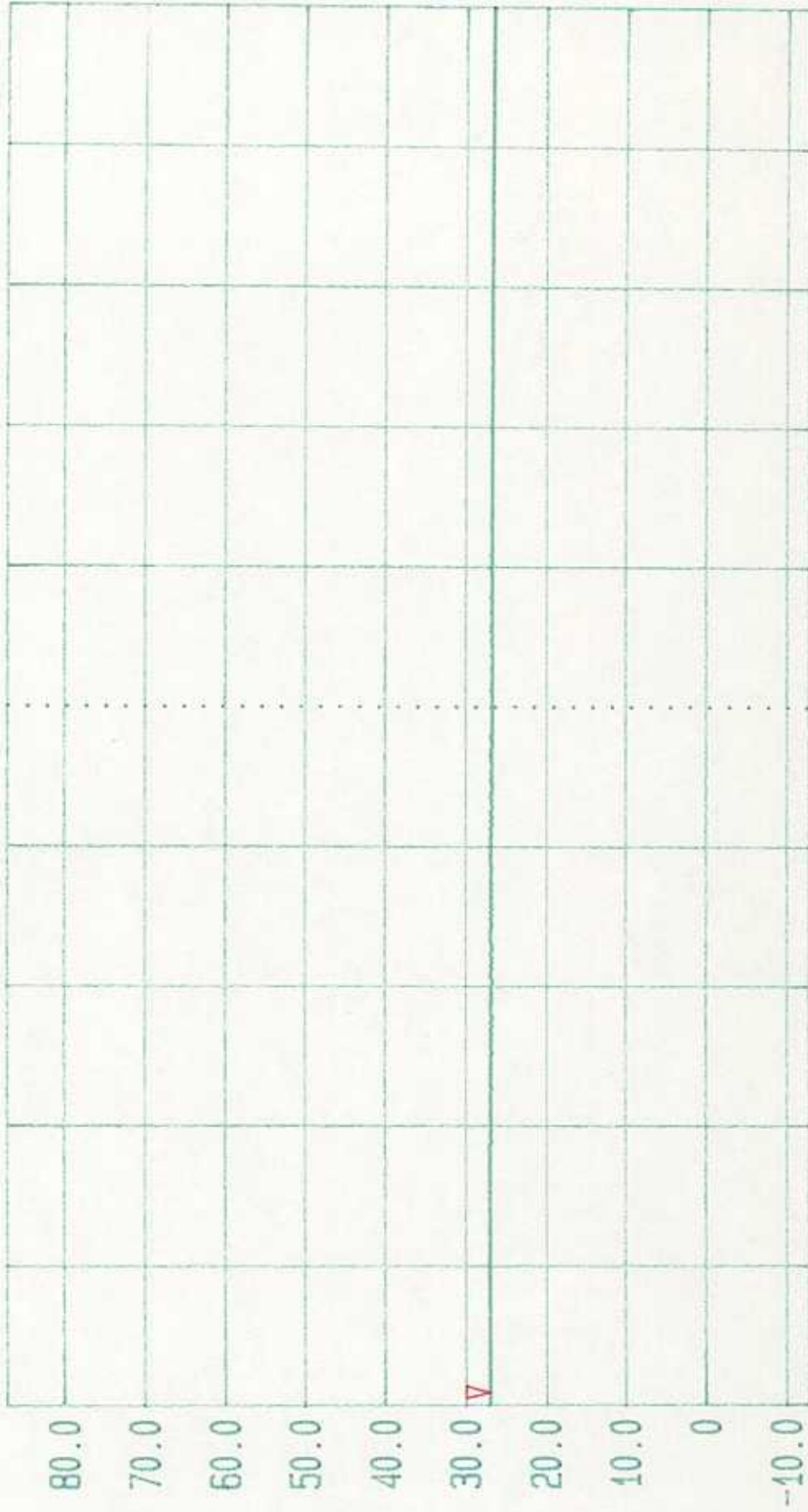
26.77 dBuV
17.18483 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.729 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBuV]



Start
17.18473 GHz

Span
10 MHz

Center
17.18973 GHz

Sweep
15.0 s

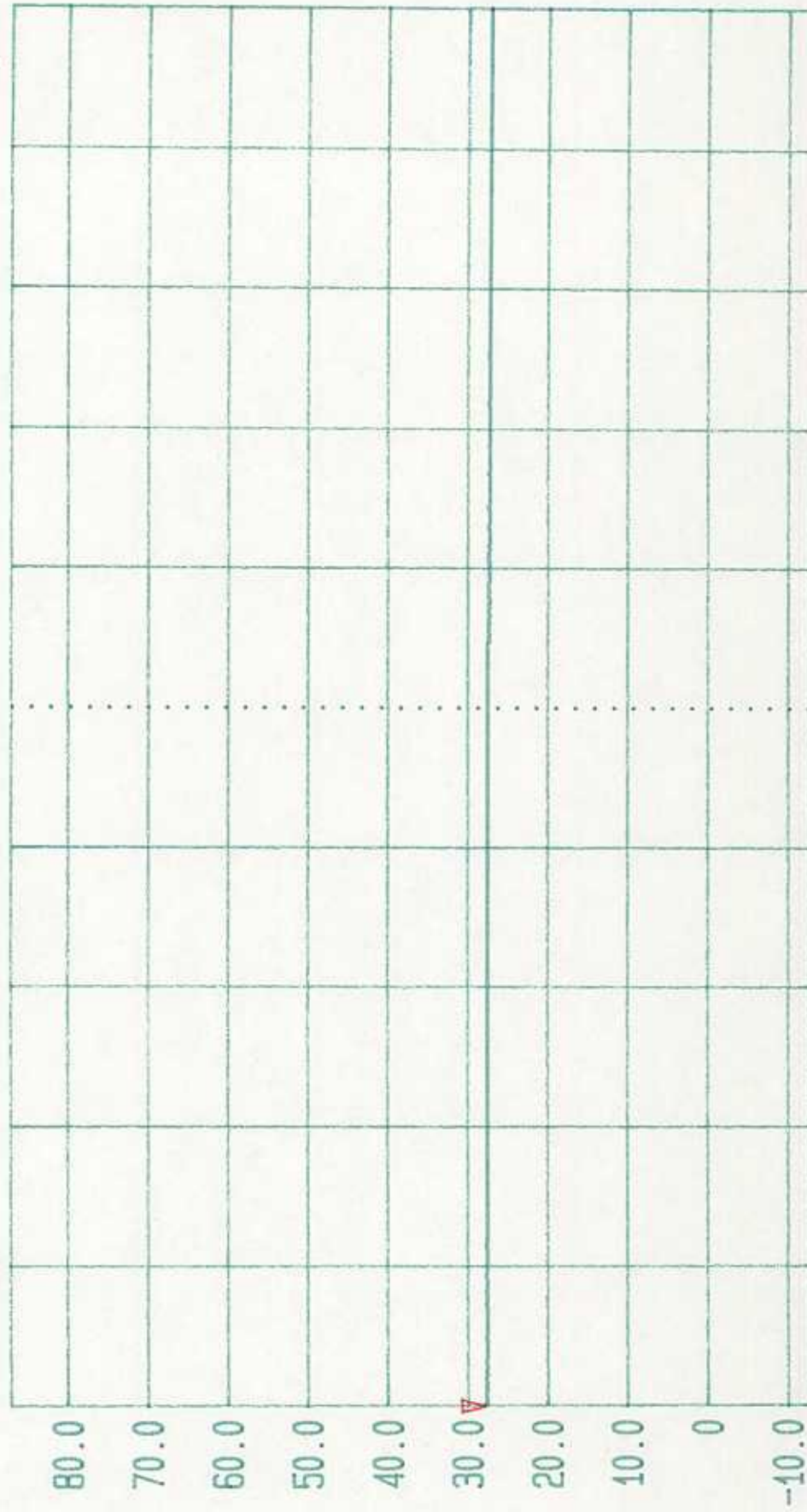
Stop
17.19473 GHz



Date 07.Aug.'03 Time 22:38:21

Ref.Lvl 87.00 dBμV
Marker 27.84 dBμV
22.91491 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.730 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBμV]



Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

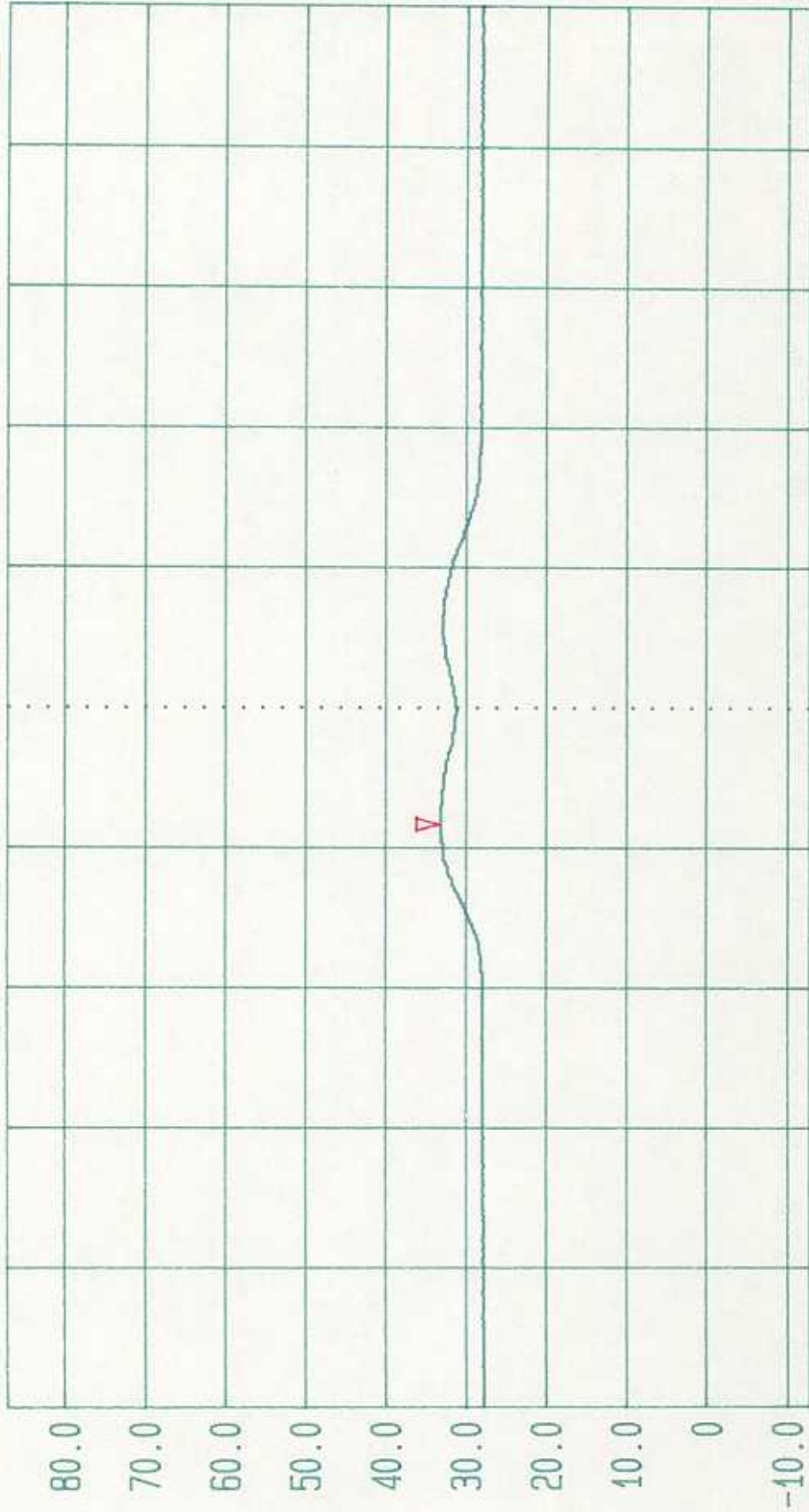
Test: Radiated Spurious Emissions
Channel: Low
Antenna: 14dBi Corner



Date 13.Aug.'03 Time 03:04:43

Ref.Lvl 87.00 dB μ V
Marker 33.20 dB μ V
11.45899 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.730 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 11.45482 GHz Span 10 MHz Center 11.45982 GHz Sweep 15.0 s Stop 11.46482 GHz

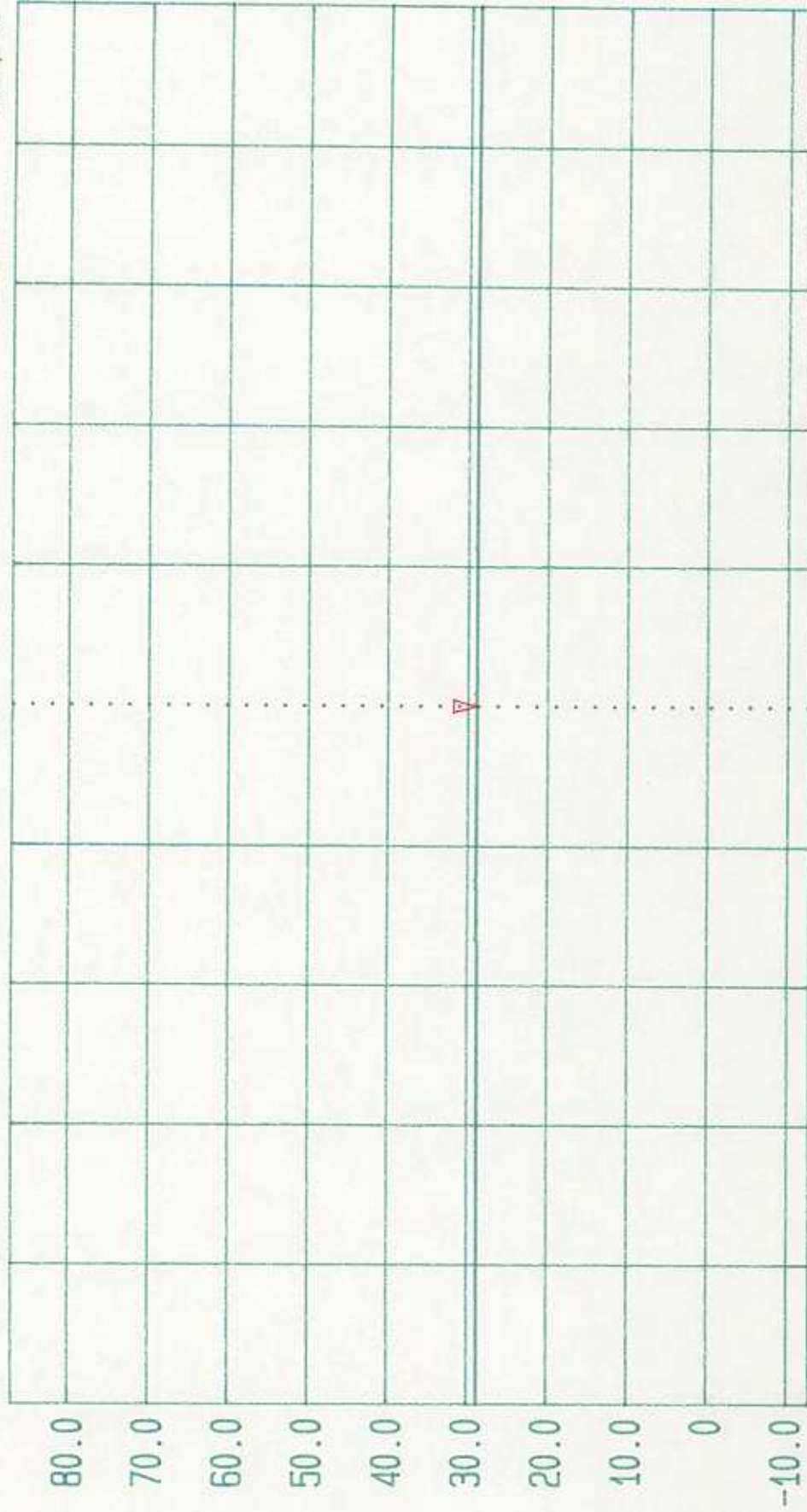
11.45982 GHz
33.20 dB μ V
10 MHz



Date 05.Aug.'03 Time 21:47:42

Ref.Lvl 87.00 dB μ V
Marker 28.90 dB μ V
17.18976 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 5.729 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 17.18476 GHz Span 10 MHz Center 17.18976 GHz Sweep 15.0 s Stop 17.19476 GHz



Date 07.Aug.'03 Time 20:54:57

Ref.Lvl 87.00 dBμV

Marker 27.76 dBμV

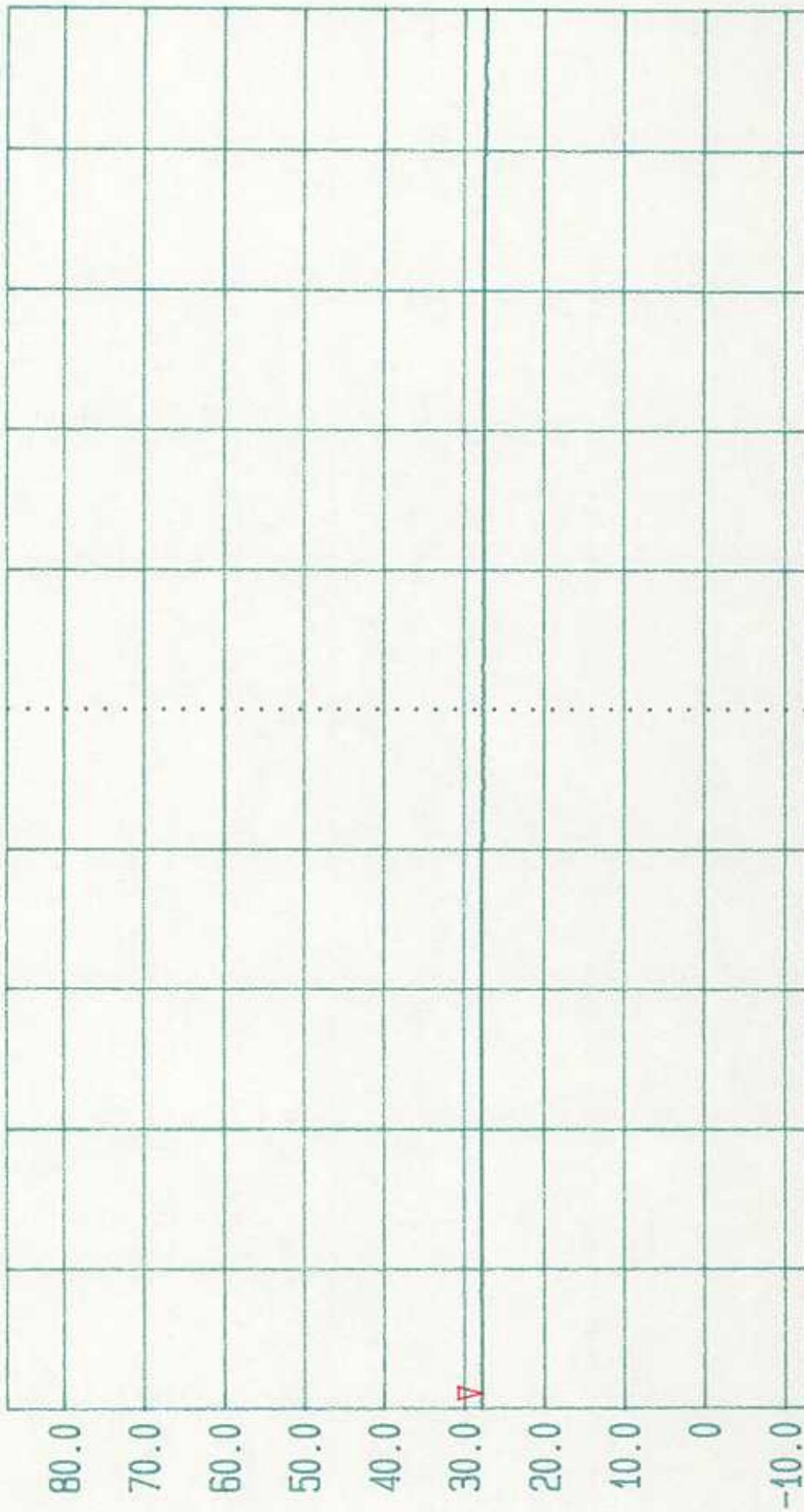
22.91440 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz limpl
off
5.729 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBμV]



Start
22.91428 GHz

Span
10 MHz

Center
22.91928 GHz

Sweep
15.0 s

Stop
22.92428 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Low
Antenna: 14dBi Patch



Date 13.Aug.'03 Time 02:06:03

Ref.Lvl

87.00 dBuV

Marker

34.39 dBuV

11.45901 GHz

Res.Bw

10 Hz

1 MHz [imp]

Off

Vid.Bw

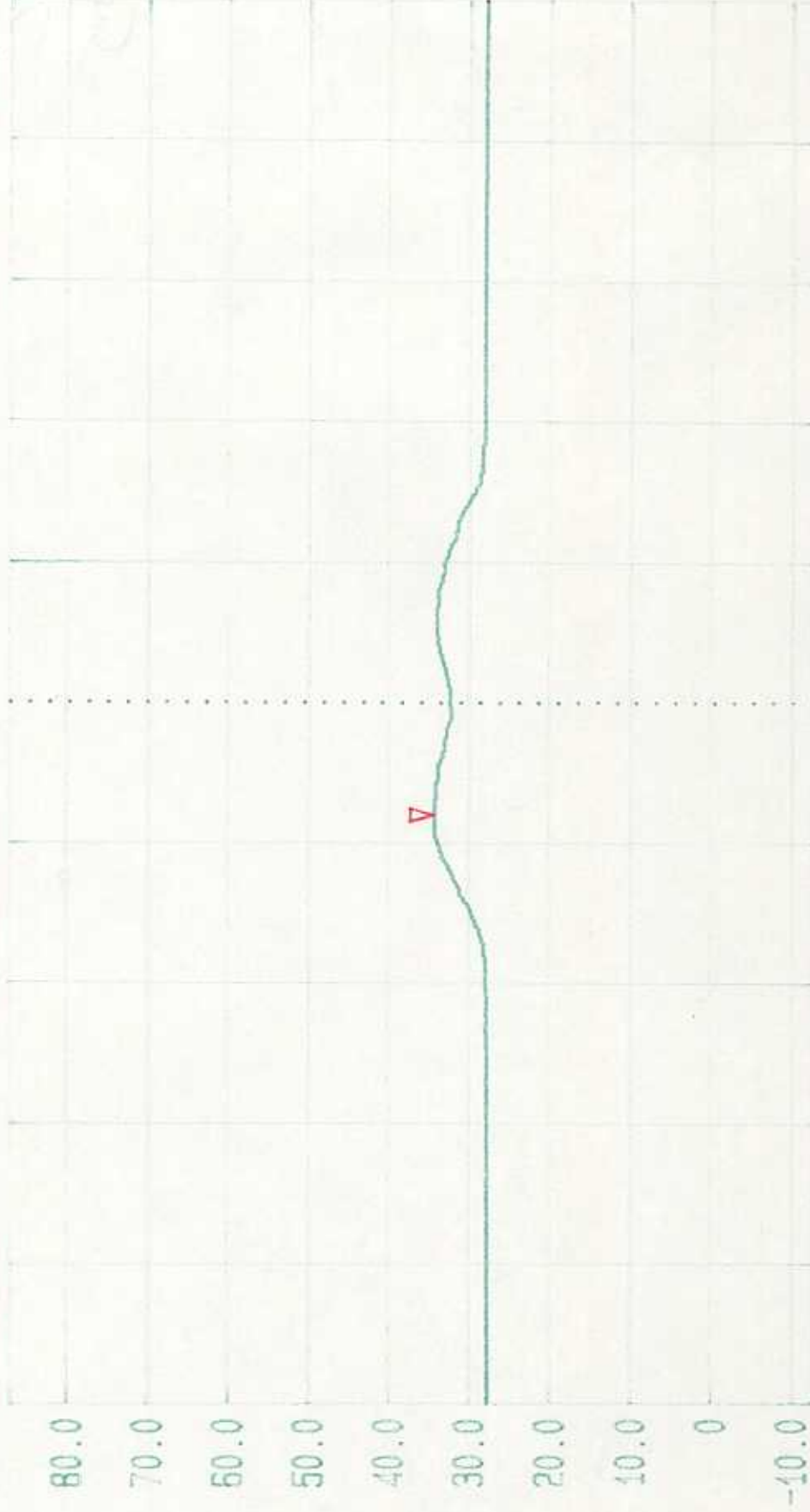
10 Hz

HF.Att

10 dB

Unit

[dBuV]



Start
11.45481 GHz

Span
10 MHz

Center
11.45901 GHz

Sweep
15.0 s

Stop
11.46481 GHz



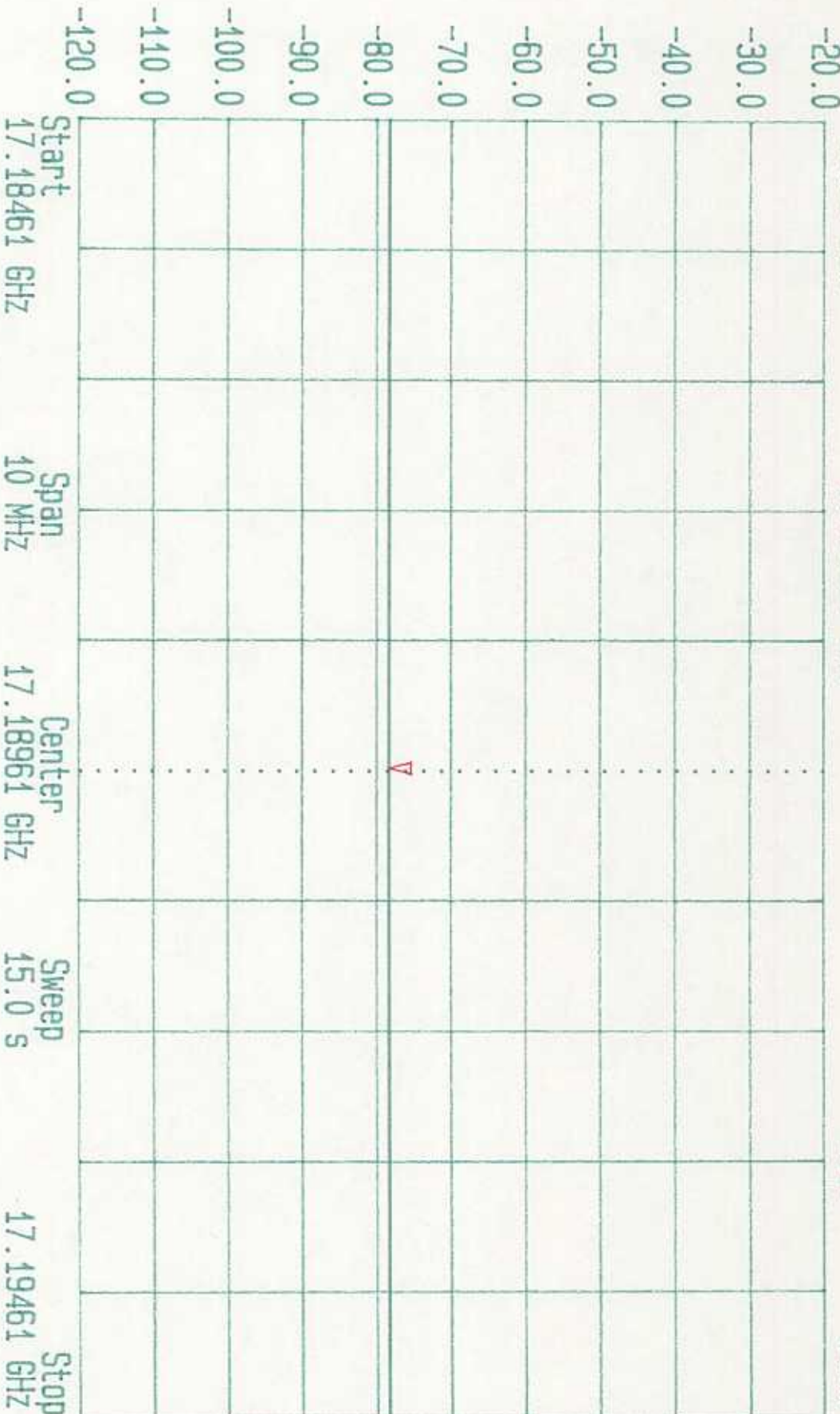
Date 06.Aug.'03 Time 21:11:52
Ref.Lvl -20.00 dBm
Marker -78.12 dBm
17.18960 GHz

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

1.0 MHz [3dB]
5.729 GHz
off

Vid.Bw 10 Hz
RF.Att
Unit

10 dB
[dBm]

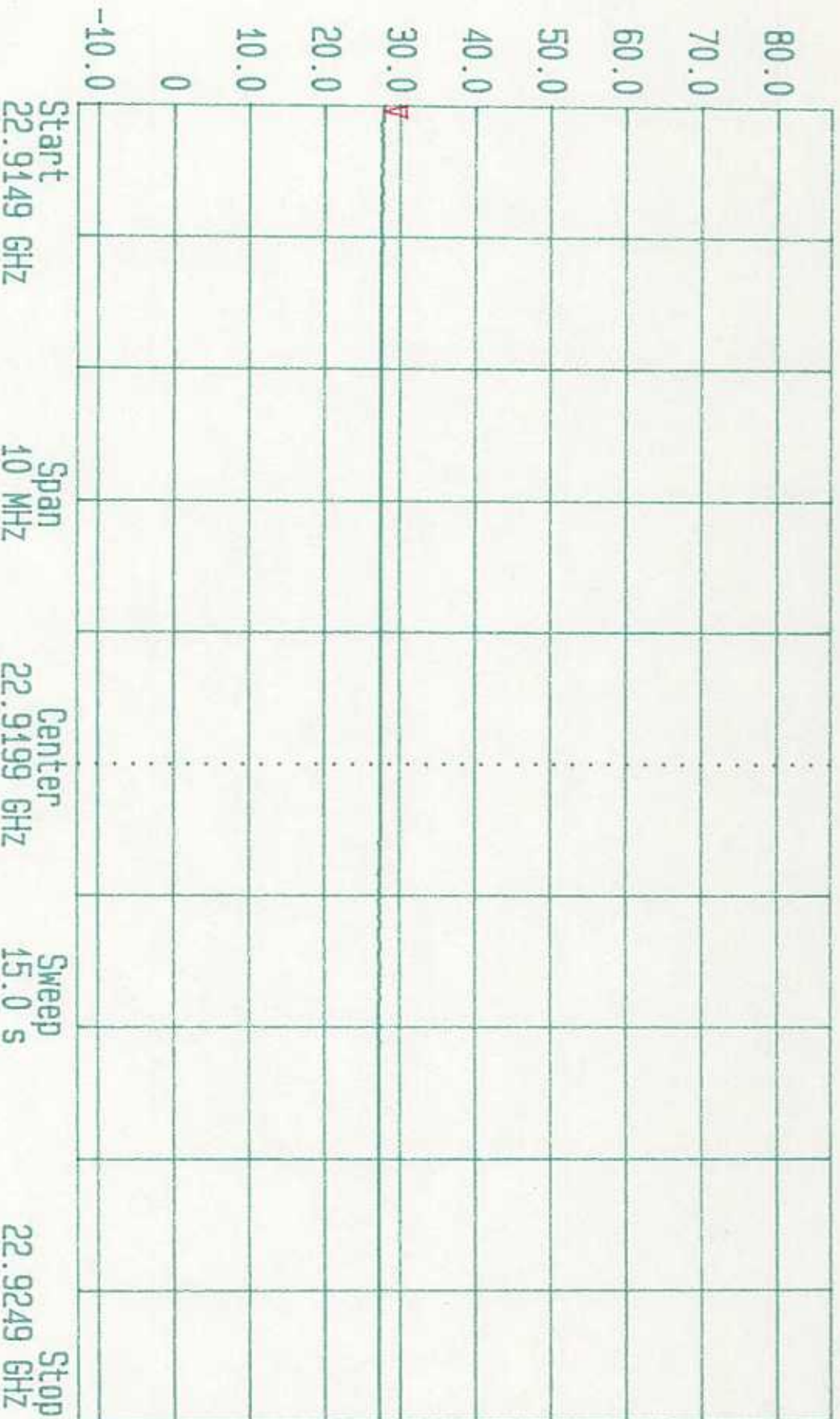




Date 07. Aug. '03 Time 21:27:24
Ref. Lvl 87.00 dBμV
Marker 22.91495 GHz

Res. Bw 1 MHz [imp]
TG. Lvl off
CF. Stp 5.730 GHz

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



Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Low
Antenna: Large Omni



Date 13.Aug.'03 Time 03:57:18

Ref.Lvl
87.00 dBμV

Marker

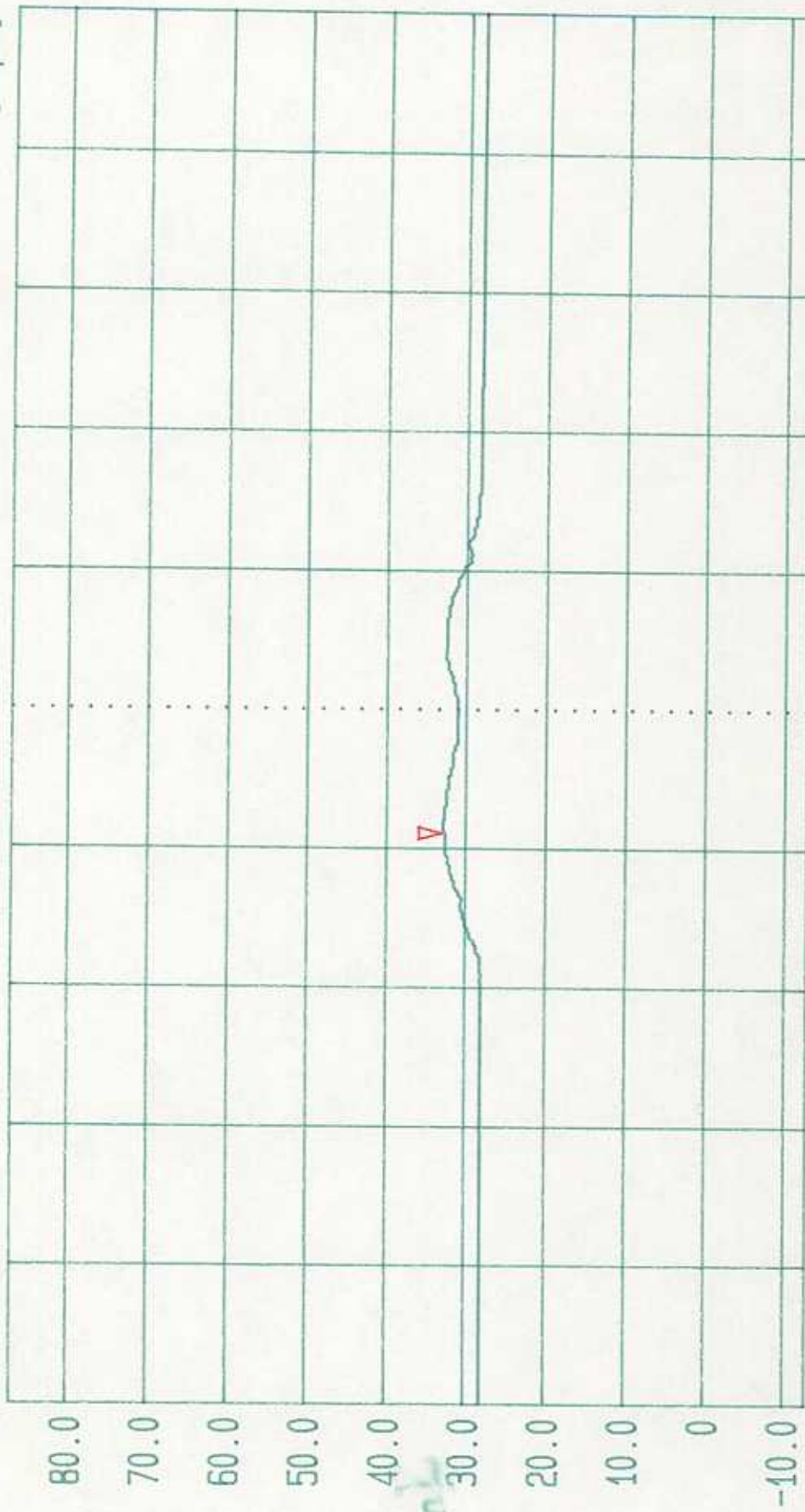
32.84 dBμV
11.45907 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off

Vid.Bw
AF.Att
Unit

10 Hz
10 dB
[dBμV]



Start
11.45495 GHz

Span
10 MHz

Center
11.45995 GHz

Sweep
15.0 s

Stop
11.46495 GHz



Date 07.Aug.'03 Time 03:33:03

Ref.Lvl
87.00 dBμV

Marker

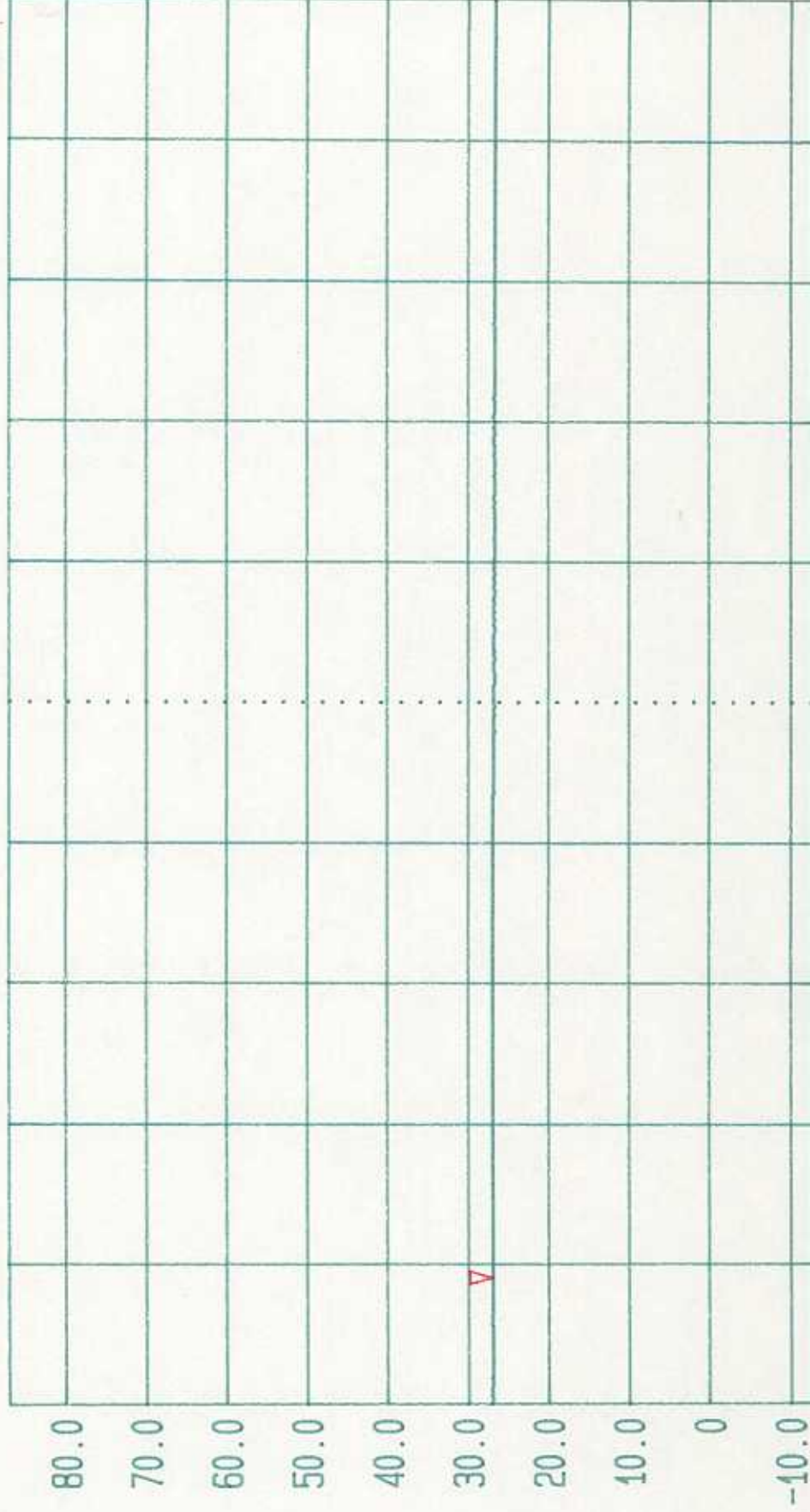
26.97 dBμV
17.27659 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.775 GHz

Vid.Bw
AF.Att
Unit

10 Hz
10 dB
[dBμV]



Start
17.27568 GHz

Span
10 MHz

Center
17.28068 GHz

Sweep
15.0 s

Stop
17.28568 GHz



Date 07. Aug. '03 Time 03:55:33

Ref.Lvl

87.00 dBμV

Marker

28.47 dBμV

23.05118 GHz

Res.Bw

TG.Lvl

CF.Stp

1 MHz [imp]

Off

5.775 GHz

Vid.Bw

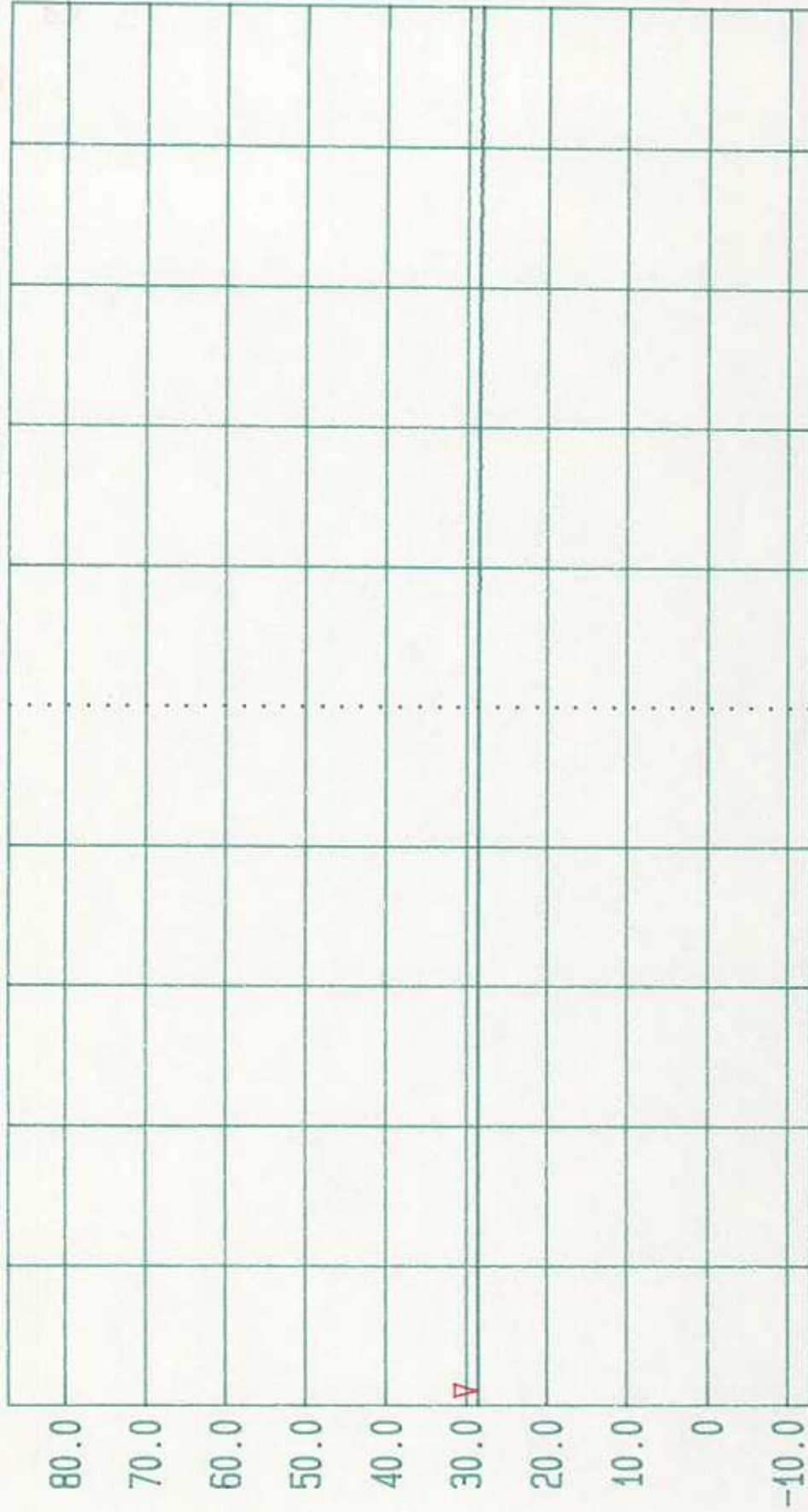
RF.Att

Unit

10 Hz

10 dB

[dBμV]



Start
23.05106 GHz

Span
10 MHz

Center
23.05606 GHz

Sweep
15.0 s

Stop
23.06106 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Center
Antenna: 0dBi Omni



Date 13.Aug.'03 Time 01:51:09

Ref.Lvl 87.00 dBuV

Marker 28.09 dBuV

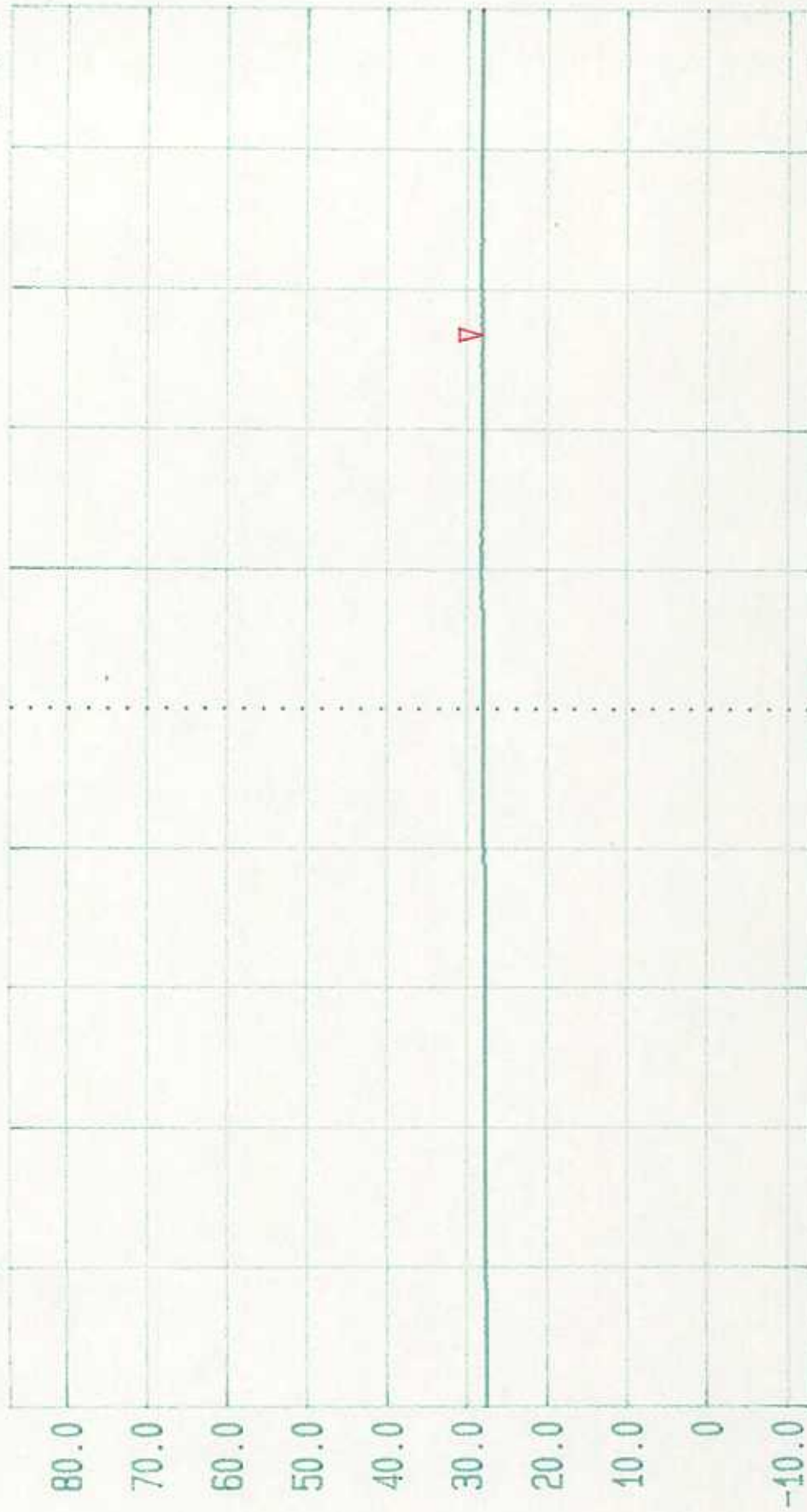
11.55307 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.775 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBuV]



Start
11.54538 GHz

Span
10 MHz

Center
11.55038 GHz

Sweep
15.0 s

Stop
11.55538 GHz



Date 07. Aug. '03 Time 01:40:46

Ref.Lvl 87.00 dBuV

Marker 26.85 dBuV

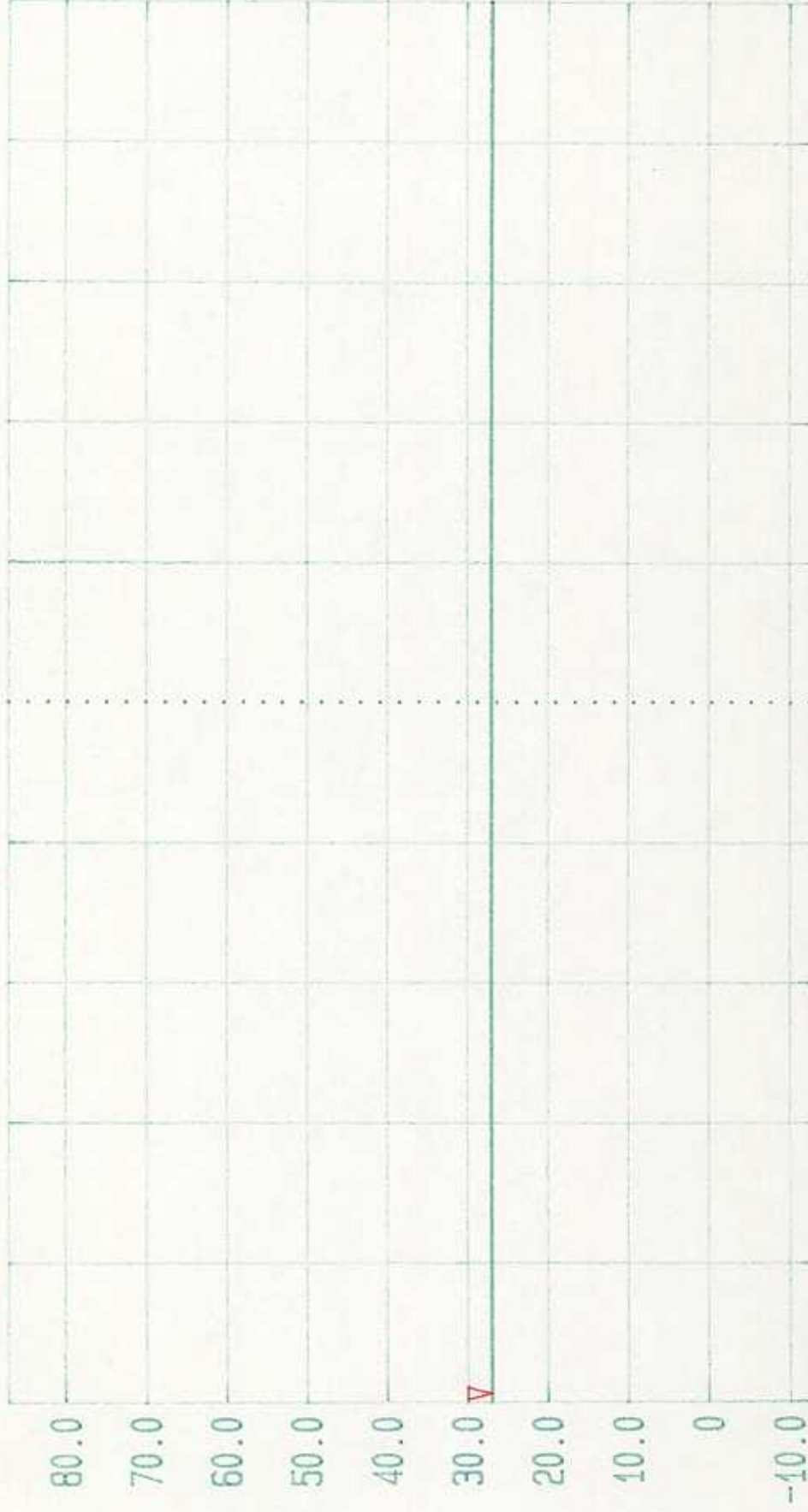
17.32095 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.775 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBuV]



Start
17.32087 GHz

Span
10 MHz

Center
17.32587 GHz

Sweep
15.0 s

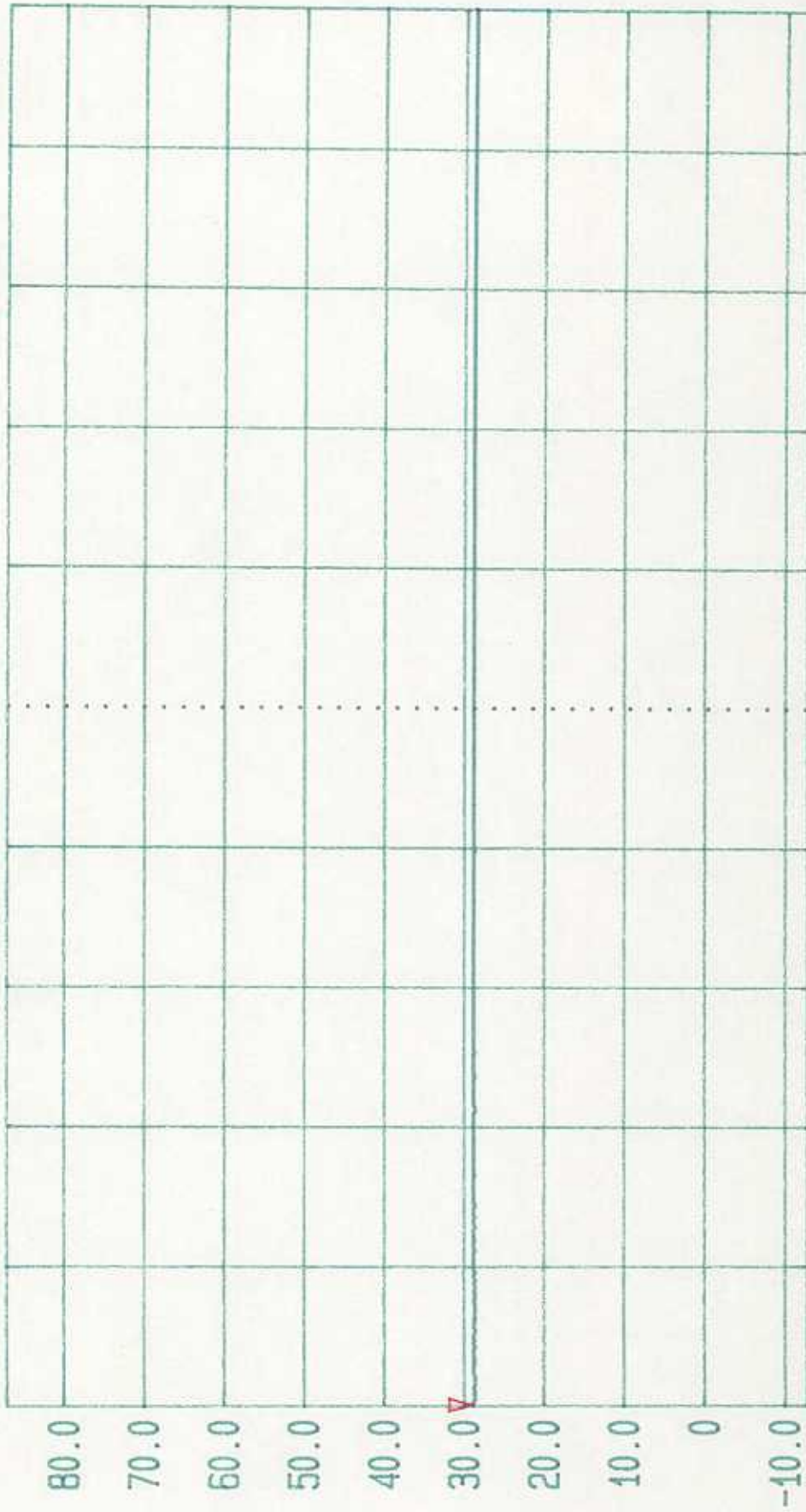
Stop
17.33087 GHz



Date 07.Aug.'03 Time 22:26:53

Ref.Lvl 87.00 dBuV
Marker 28.68 dBuV
23.09525 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.775 GHz
Vid.Bw 10 Hz
HF.Att 10 dB
Unit [dBuV]



Start 23.09523 GHz Span 10 MHz Center 23.10023 GHz Sweep 15.0 s Stop 23.10523 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

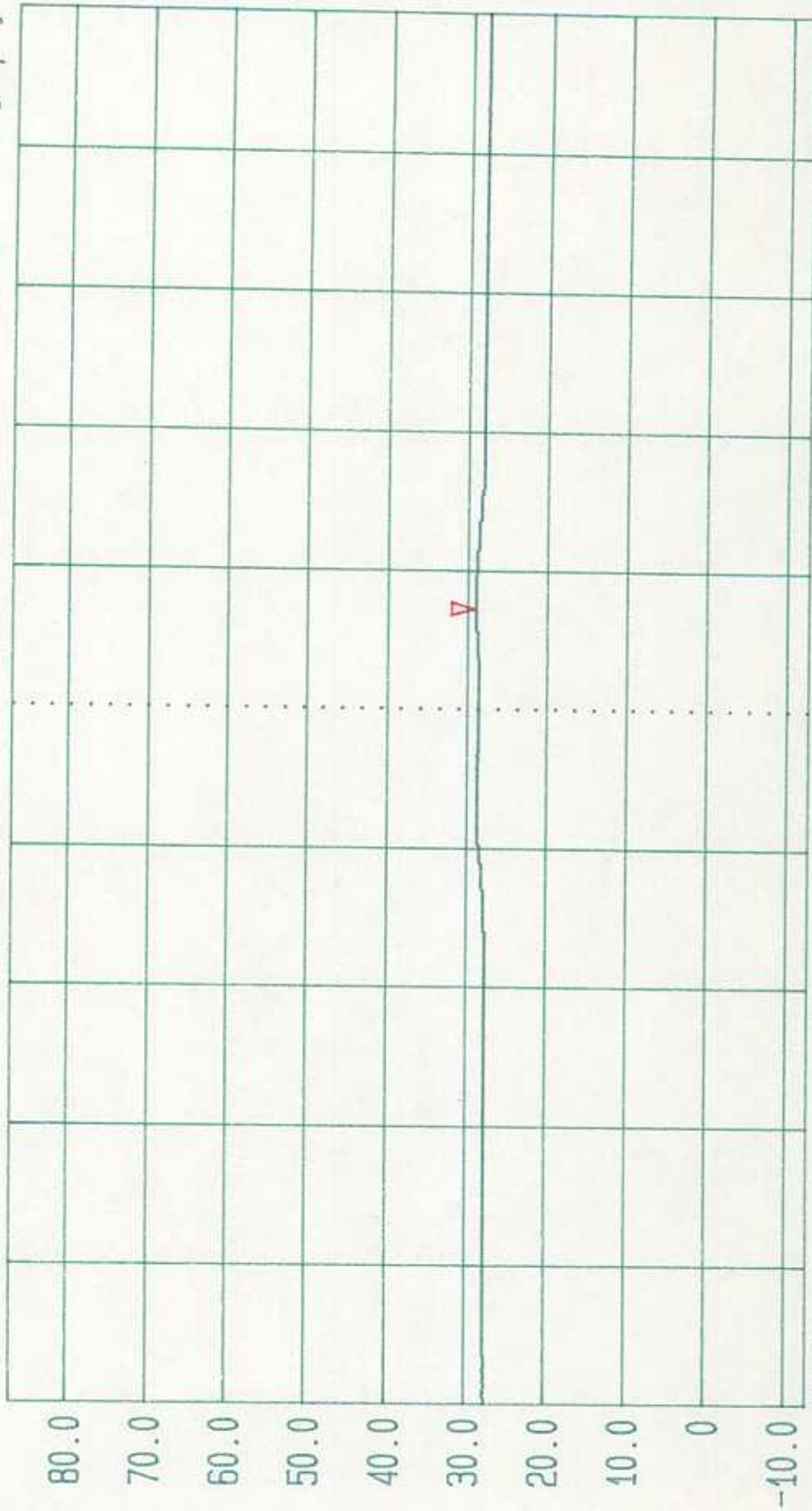
Test: Radiated Spurious Emissions
Channel: Center
Antenna: 14dBi Corner



Date 13.Aug.'03 Time 03:12:18

Ref.Lvl 87.00 dB μ V
Marker 29.08 dB μ V
11.55135 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.775 GHz
Vid.Bw 10 Hz
AF.Att 10 dB
Unit [dB μ V]



Start
11.54562 GHz

Span
10 MHz

Center
11.55062 GHz

Sweep
15.0 s

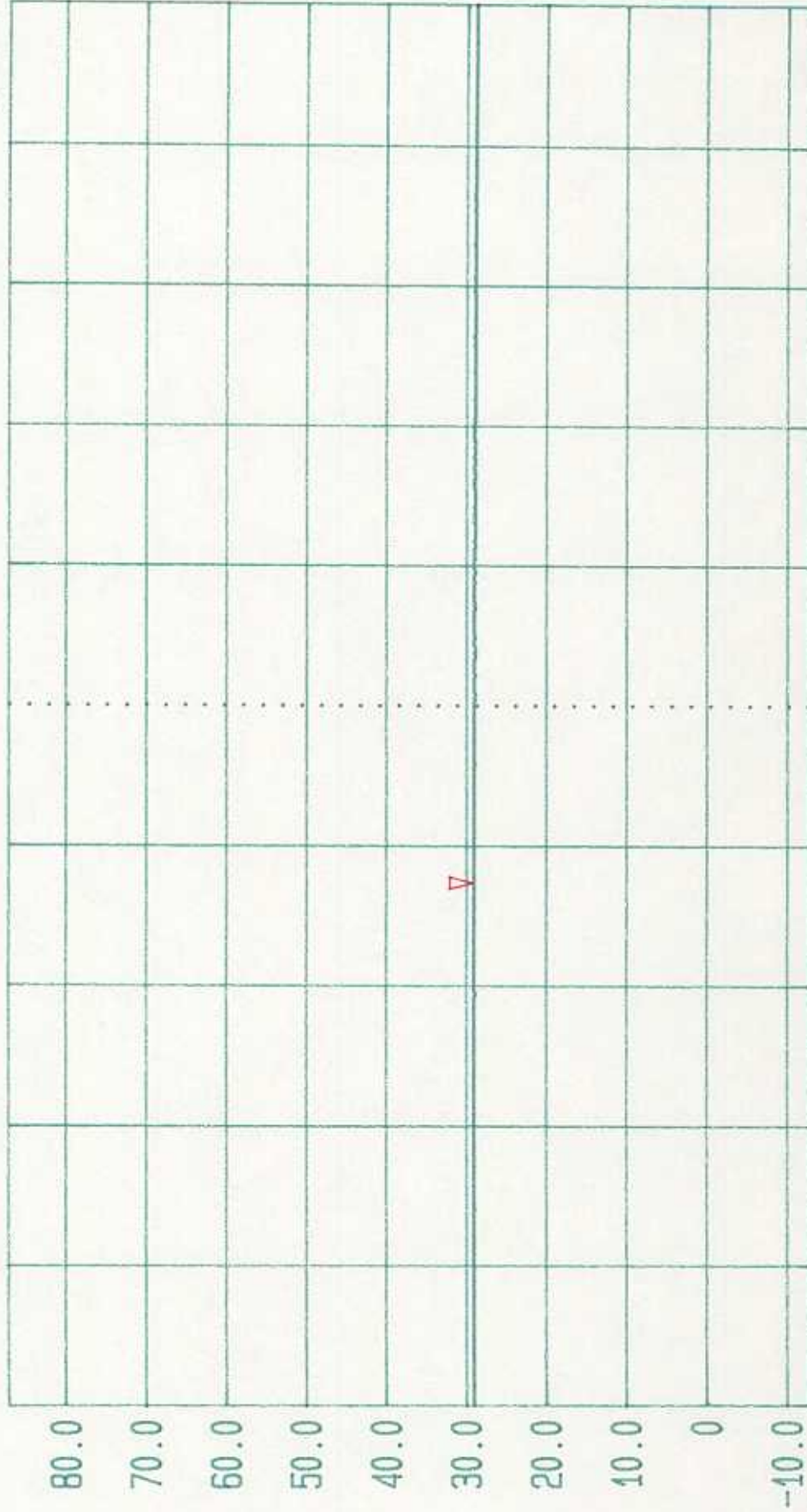
Stop
11.55562 GHz



Date 05.Aug.'03 Time 23:10:40

Ref.Lvl 87.00 dB μ V
Marker 28.98 dB μ V
17.32494 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 5.775 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 17.3212 GHz
Span 10 MHz
Center 17.3262 GHz
Sweep 15.0 s
Stop 17.3312 GHz



Date 07.Aug.'03 Time 21:04:09

Ref.Lvl
87.00 dBμV

Marker

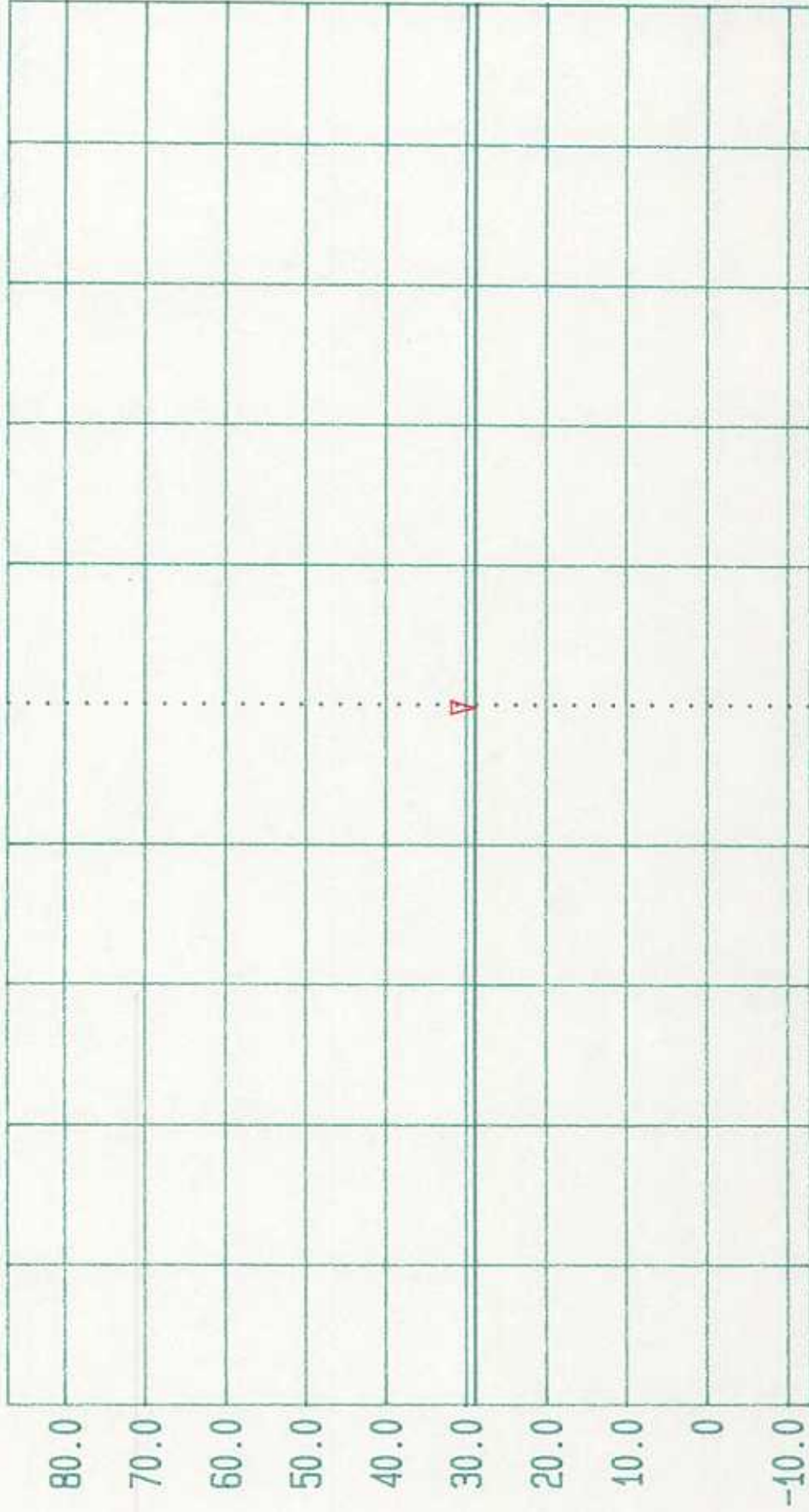
28.80 dBμV
23.10127 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.775 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBμV]



Start
23.09628 GHz

Span
10 MHz

Center
23.10128 GHz

Sweep
15.0 s

Stop
23.10628 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

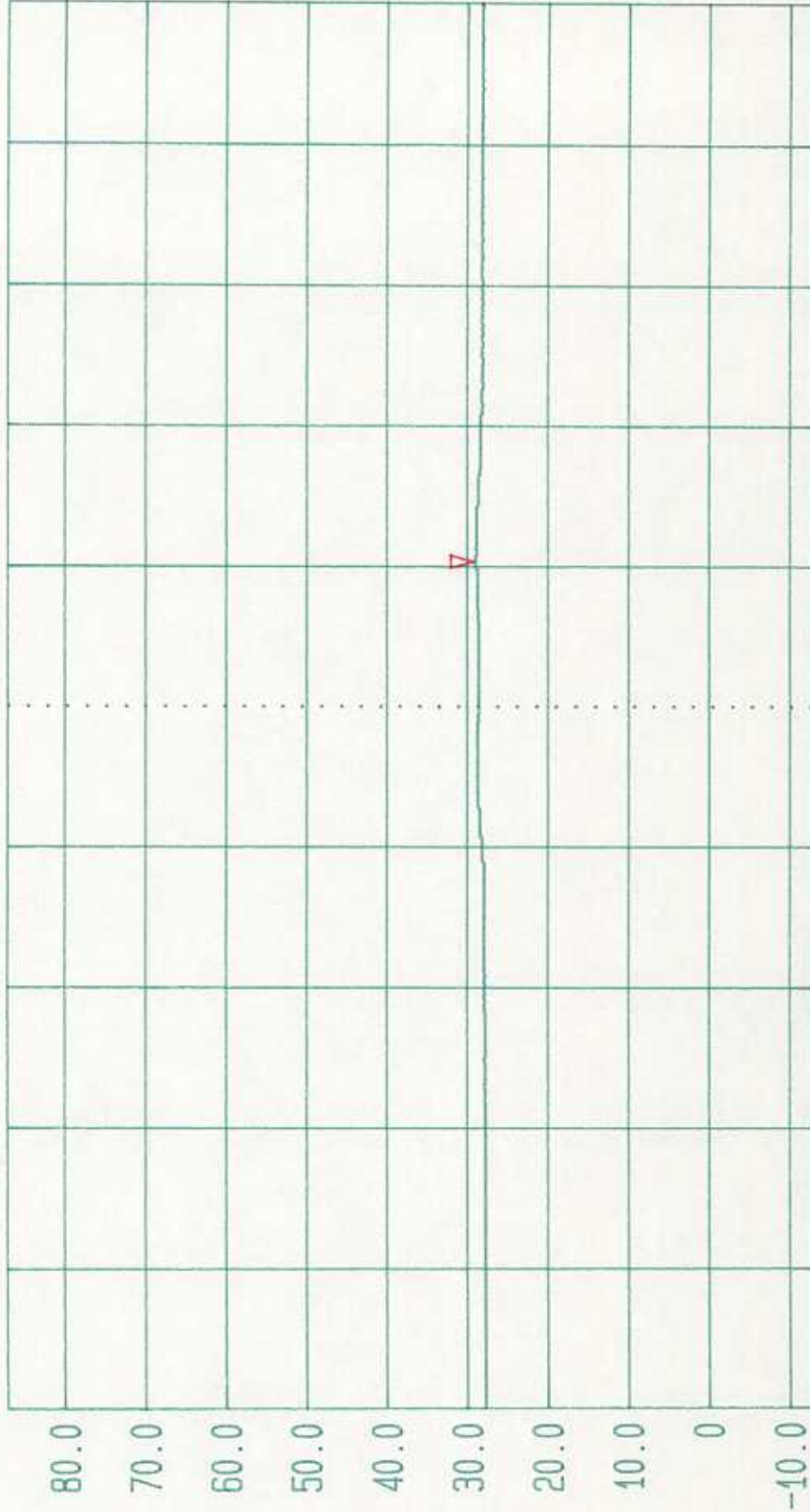
Test: Radiated Spurious Emissions
Channel: Center
Antenna: 14dBi Patch



Date 13.Aug.'03 Time 02:53:28

Ref.Lvl 87.00 dB μ V
Marker 29.01 dB μ V
11.55138 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.775 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 11.54534 GHz
Span 10 MHz
Center 11.55034 GHz
Sweep 15.0 s
Stop 11.55534 GHz



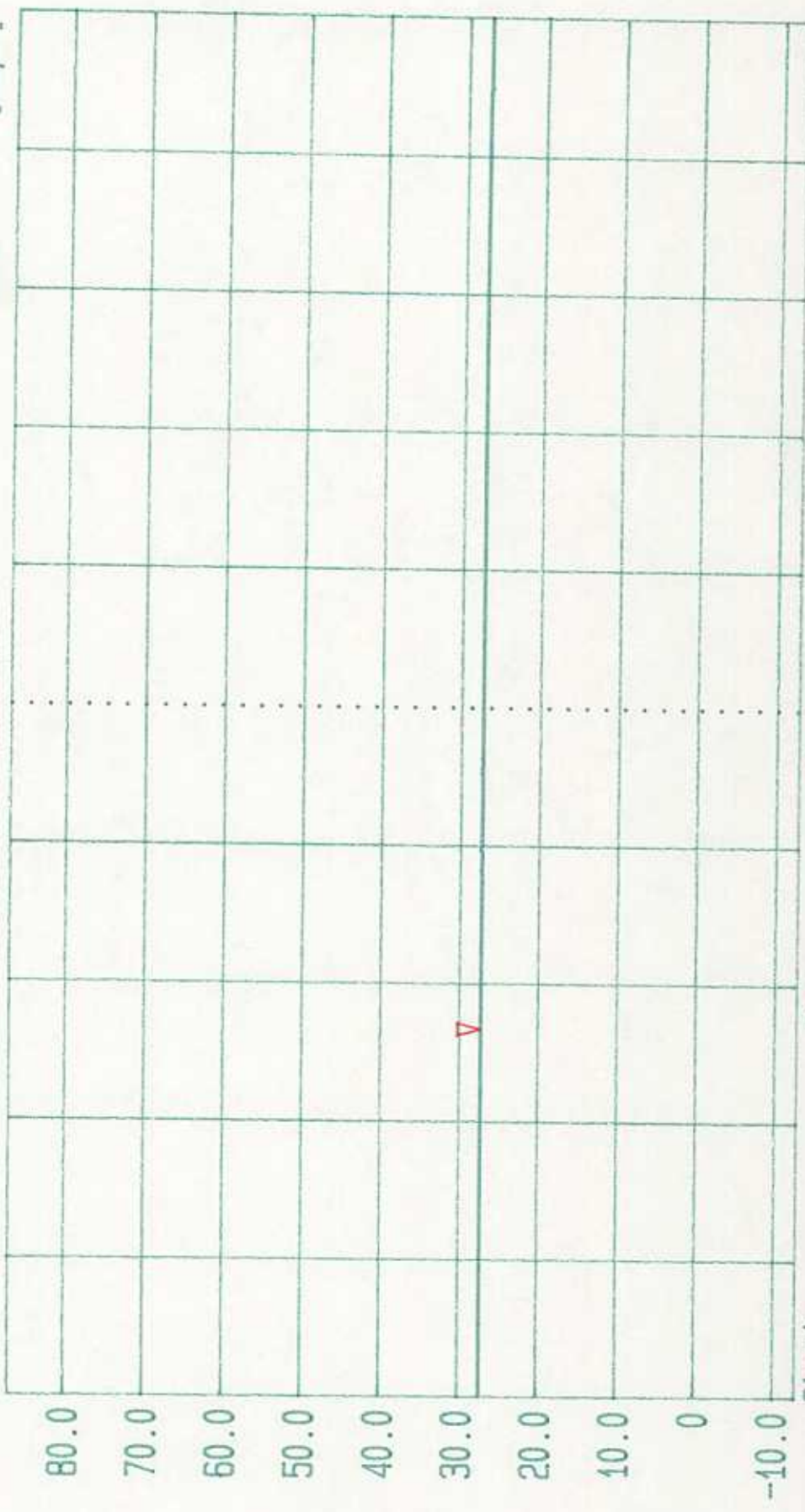
Date 06.Aug.'03 Time 22:05:56

Ref.Lvl 87.00 dBuV
Marker 27.18 dBuV
17.32360 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.775 GHz

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



Start
17.32093 GHz

Span
10 MHz

Center
17.32593 GHz

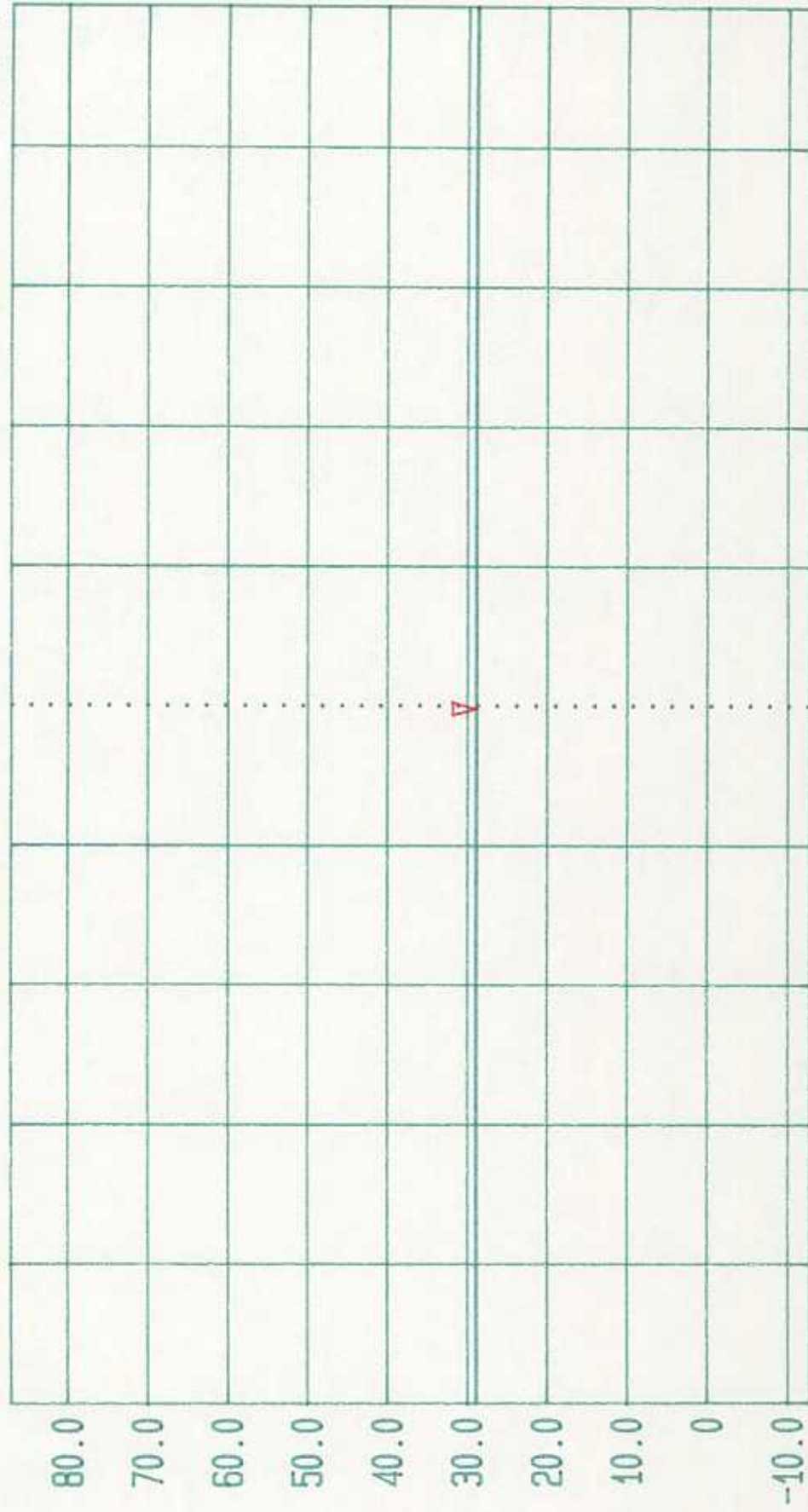
Sweep
15.0 s

Stop
17.33093 GHz



Date 07.Aug.'03 Time 21:36:48
Ref.Lvl 87.00 dBμV
Marker 28.88 dBμV
23.10122 GHz

Res.Bw 1 MHz [imp]
TG.Lvl Off
CF.Stp 5.775 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBμV]



Start 23.09624 GHz
Span 10 MHz
Center 23.10124 GHz
Sweep 15.0 s
Stop 23.10624 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Center
Antenna: Large Omni



Date 13.Aug.'03 Time 03:49:17

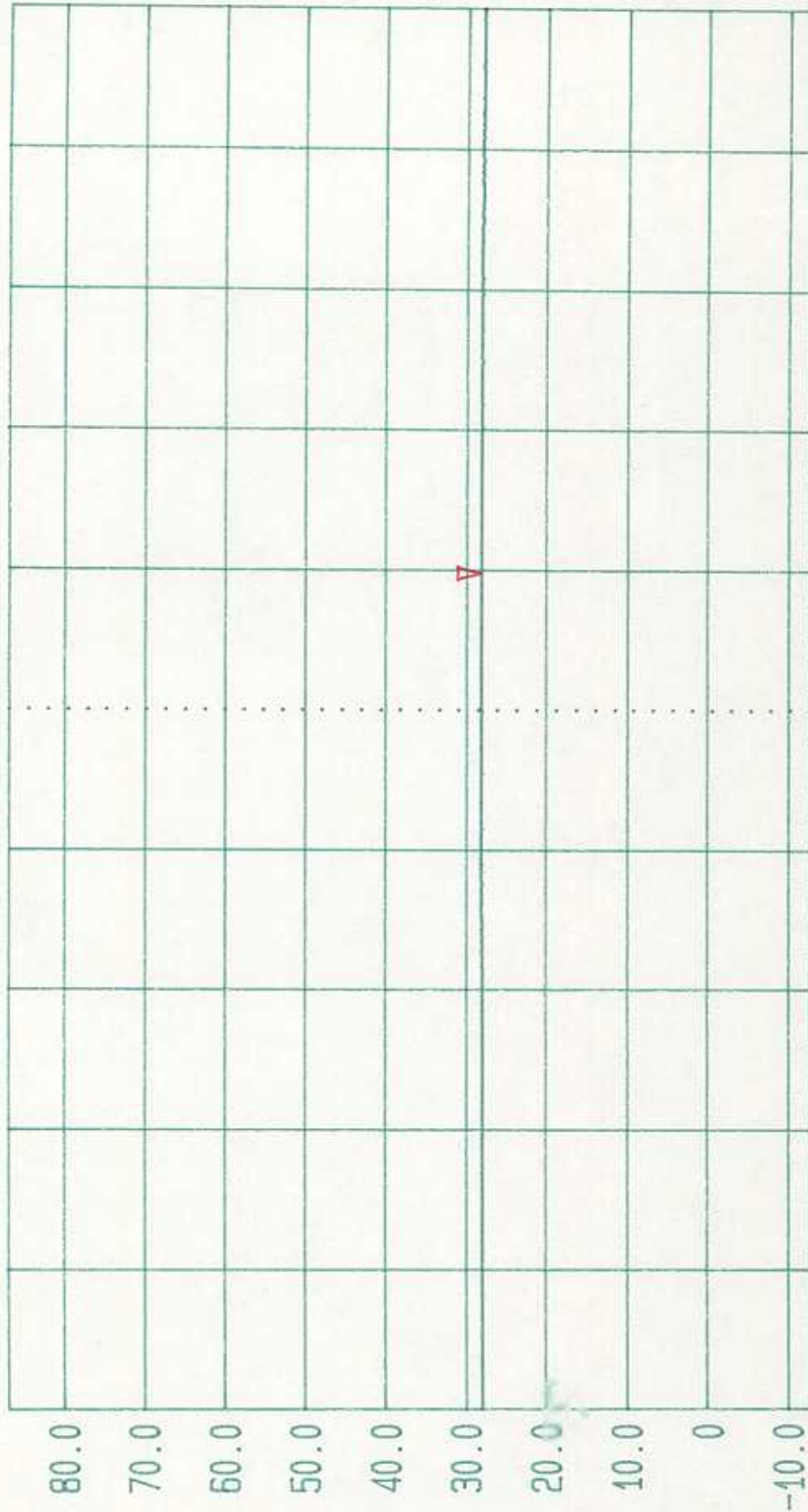
Ref.Lvl 87.00 dB μ V
Marker 28.14 dB μ V
11.55161 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz limpl
off
5.775 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dB μ V]



Start 11.54562 GHz
Span 10 MHz
Center 11.55062 GHz
Sweep 15.0 s
Stop 11.55562 GHz



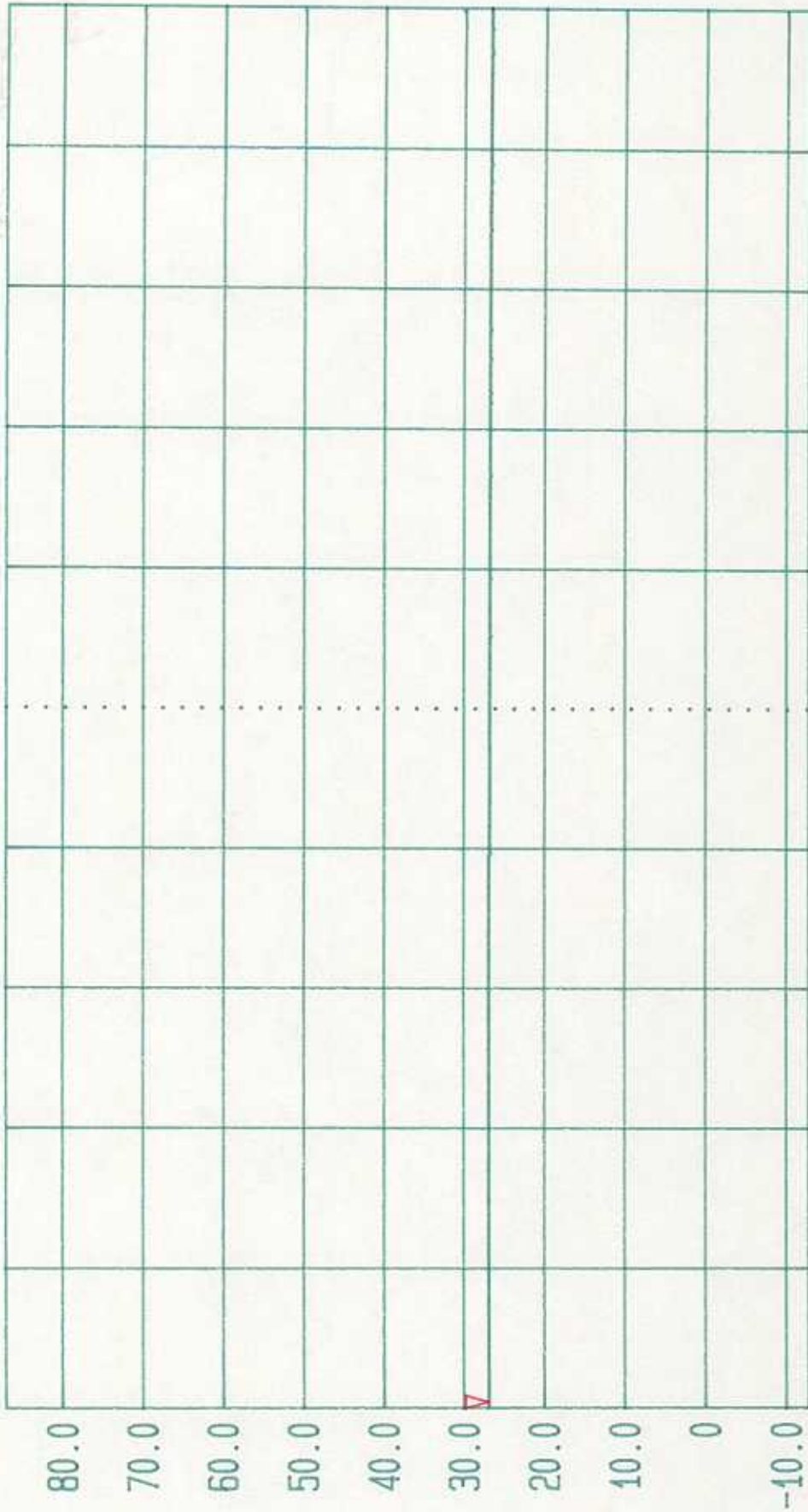
Date 07.Aug.'03 Time 03:09:44

Ref.Lvl 87.00 dBμV
Marker 26.87 dBμV
17.32120 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.775 GHz

Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBμV]



Start
17.32114 GHz

Span
10 MHz

Center
17.32614 GHz

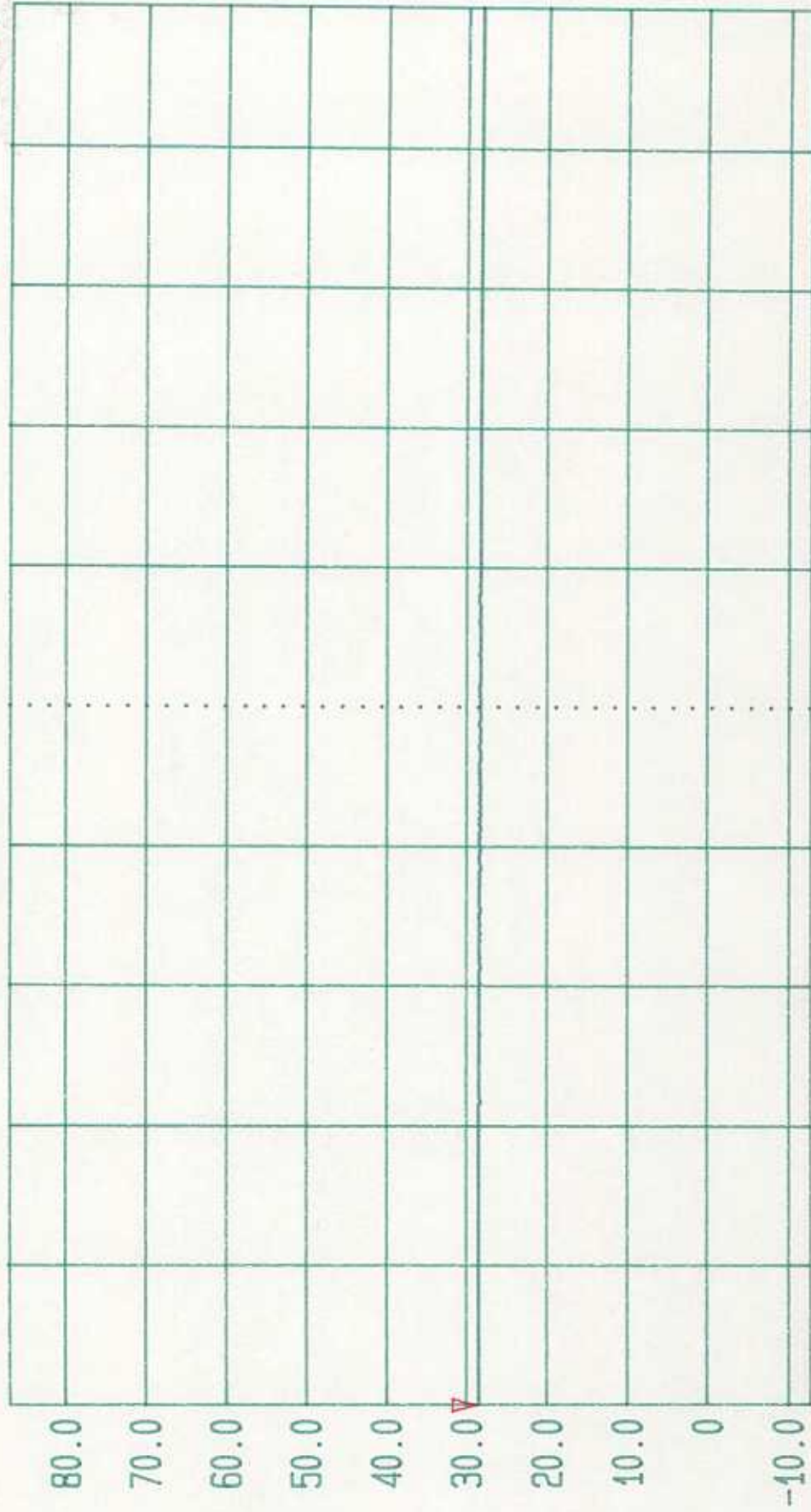
Sweep
15.0 s

Stop
17.33114 GHz



Date 07. Aug. '03 Time 04:04:48
Ref.Lvl 87.00 dB μ V
Marker 28.85 dB μ V
23.09584 GHz

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



Start 23.09584 GHz
Span 10 MHz
Center 23.10084 GHz
Sweep 15.0 s
Stop 23.10584 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: High
Antenna: 0dBi Omni



Date 13.Aug.'03 Time 01:43:41

Ref.Lvl 87.00 dB μ V

Marker

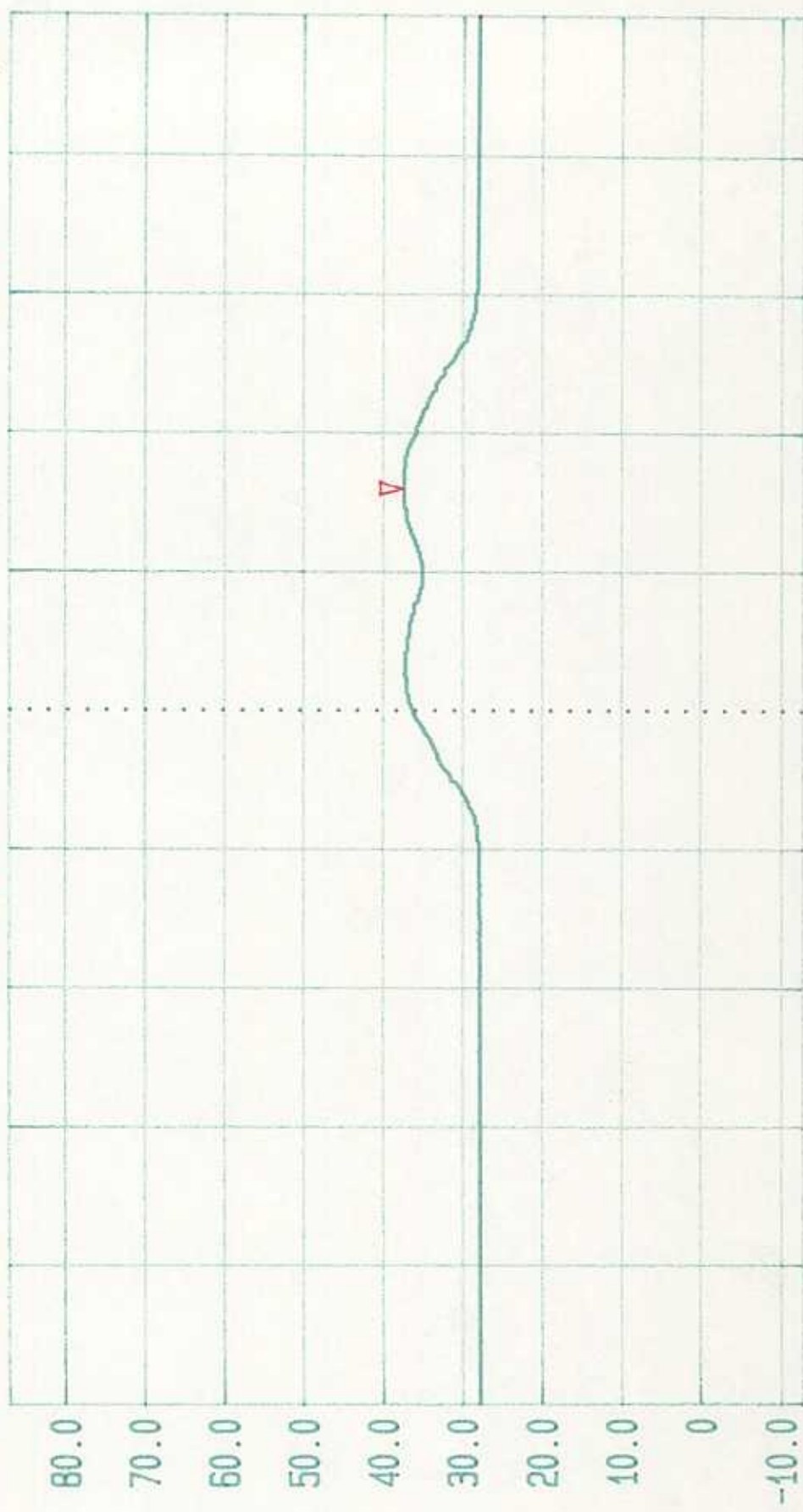
37.44 dB μ V
11.64239 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.820 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dB μ V]



Start
11.63579 GHz

Span
10 MHz

Center
11.64079 GHz

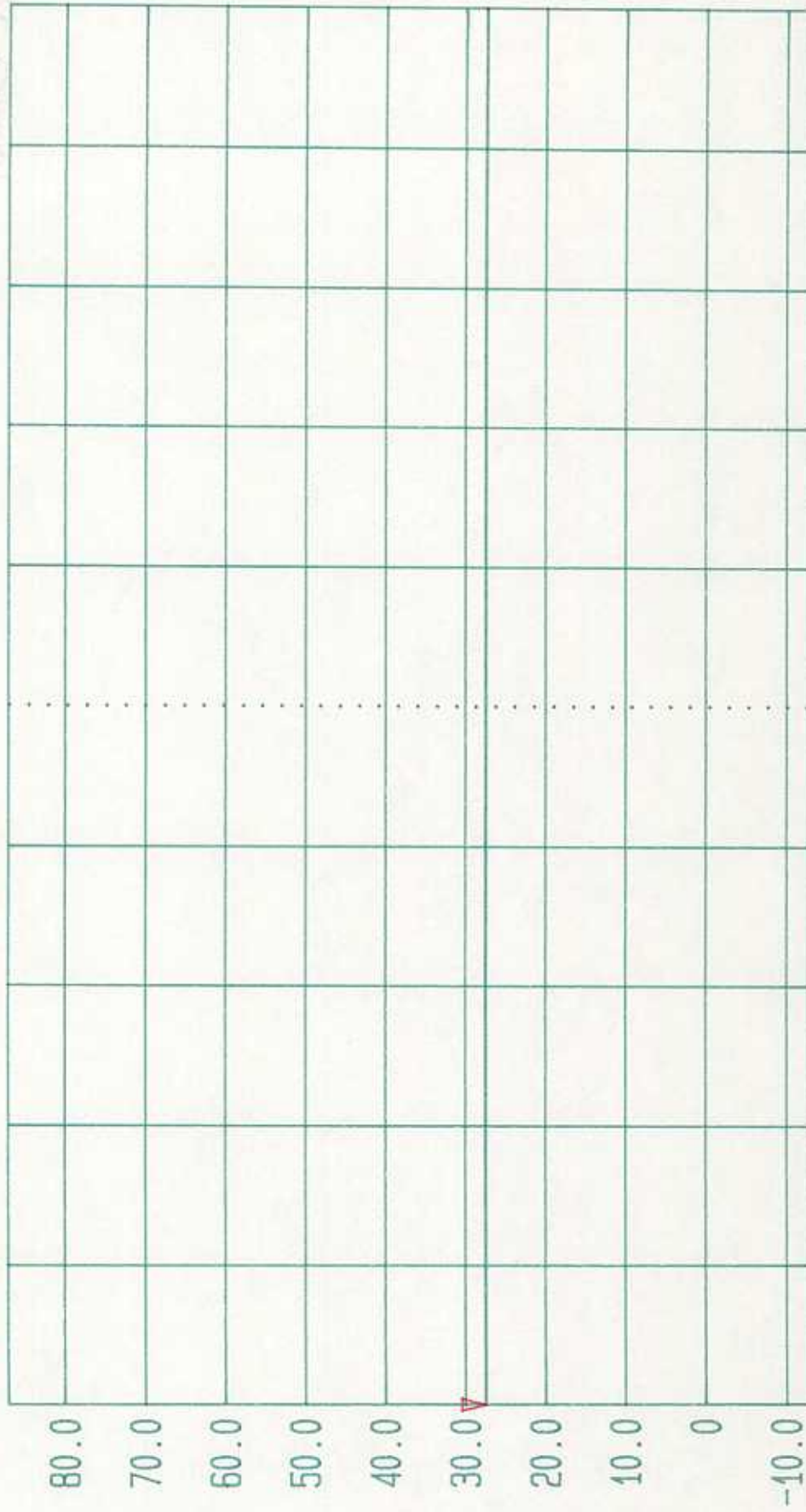
Sweep
15.0 s

Stop
11.64579 GHz



Date 07.Aug.'03 Time 02:07:41
Ref.Lvl 87.00 dBμV
Marker 27.33 dBμV
17.45753 GHz

Res.Bw TG.Lvl CF.Stp
1 MHz [imp] off
5.820 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBμV]



Start 17.45752 GHz Span 10 MHz Center 17.46252 GHz Sweep 15.0 s Stop 17.46752 GHz



Date 07.Aug.'03 Time 22:16:54

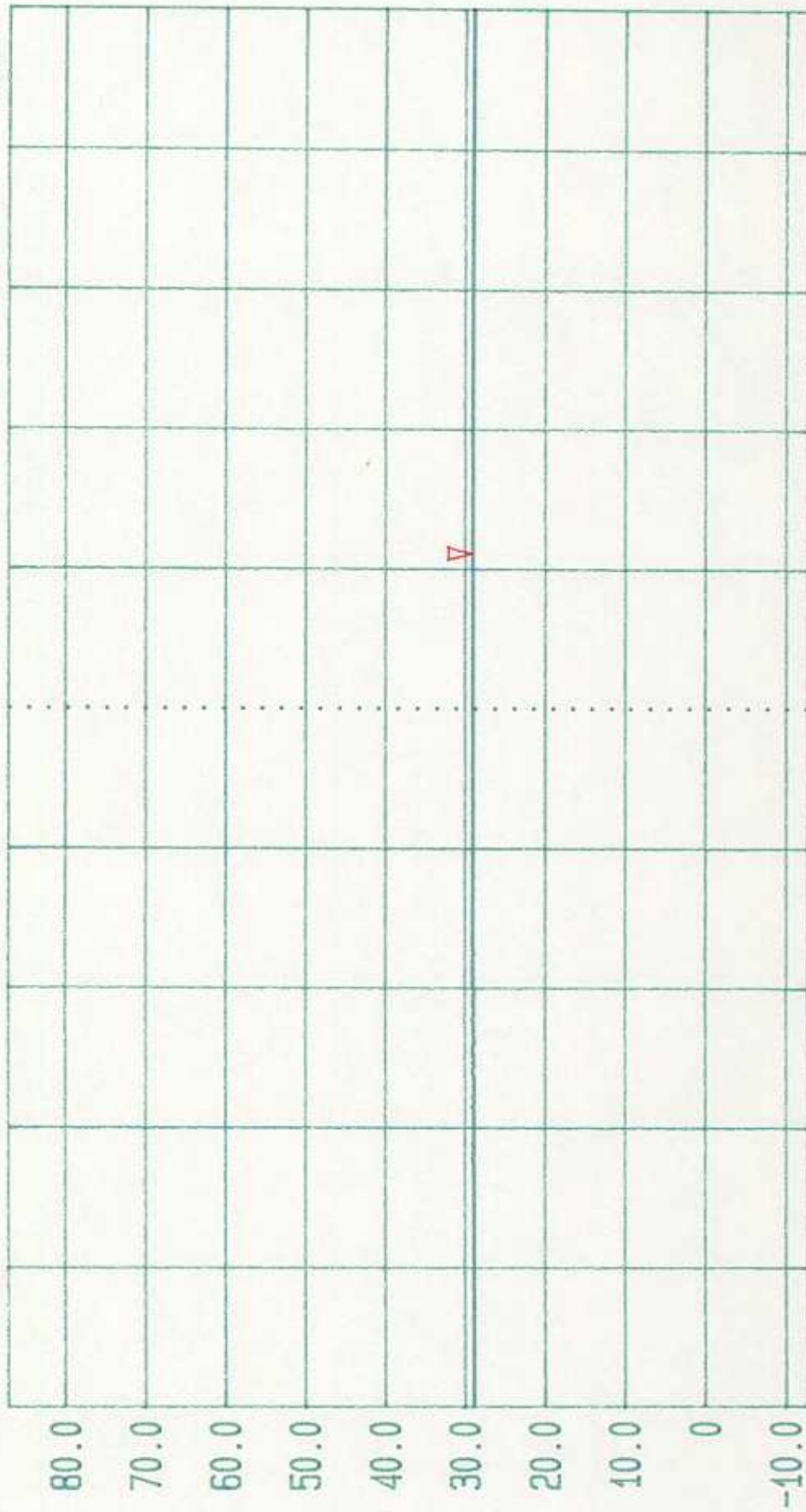
Ref.Lvl 87.00 dBuV
Marker 29.08 dBuV
23.28187 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.775 GHz

Vid.Bw
RF:Att
Unit

10 Hz
10 dB
[dBuV]



Start
23.27575 GHz

Span
10 MHz

Center
23.28187 GHz

Sweep
15.0 s

Stop
23.28575 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

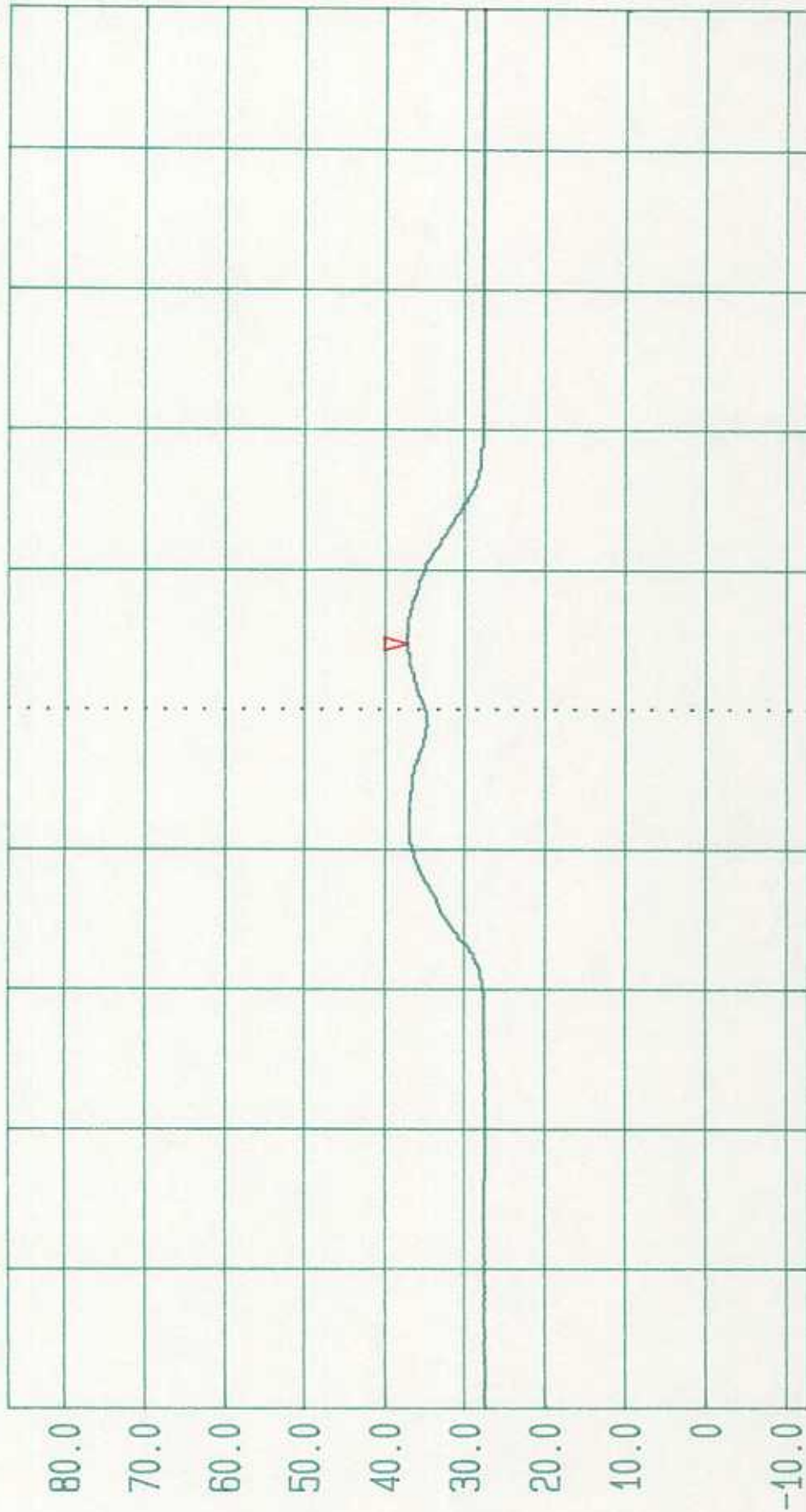
Test: Radiated Spurious Emissions
Channel: High
Antenna: 14dBi Corner



Date 13.Aug.'03 Time 03:20:19

Ref.Lvl 87.00 dB μ V
Marker 37.26 dB μ V
11.64218 GHz

Res.Bw 1 MHz [imp]
TG.Lvl Off
CF.Stp 5.820 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



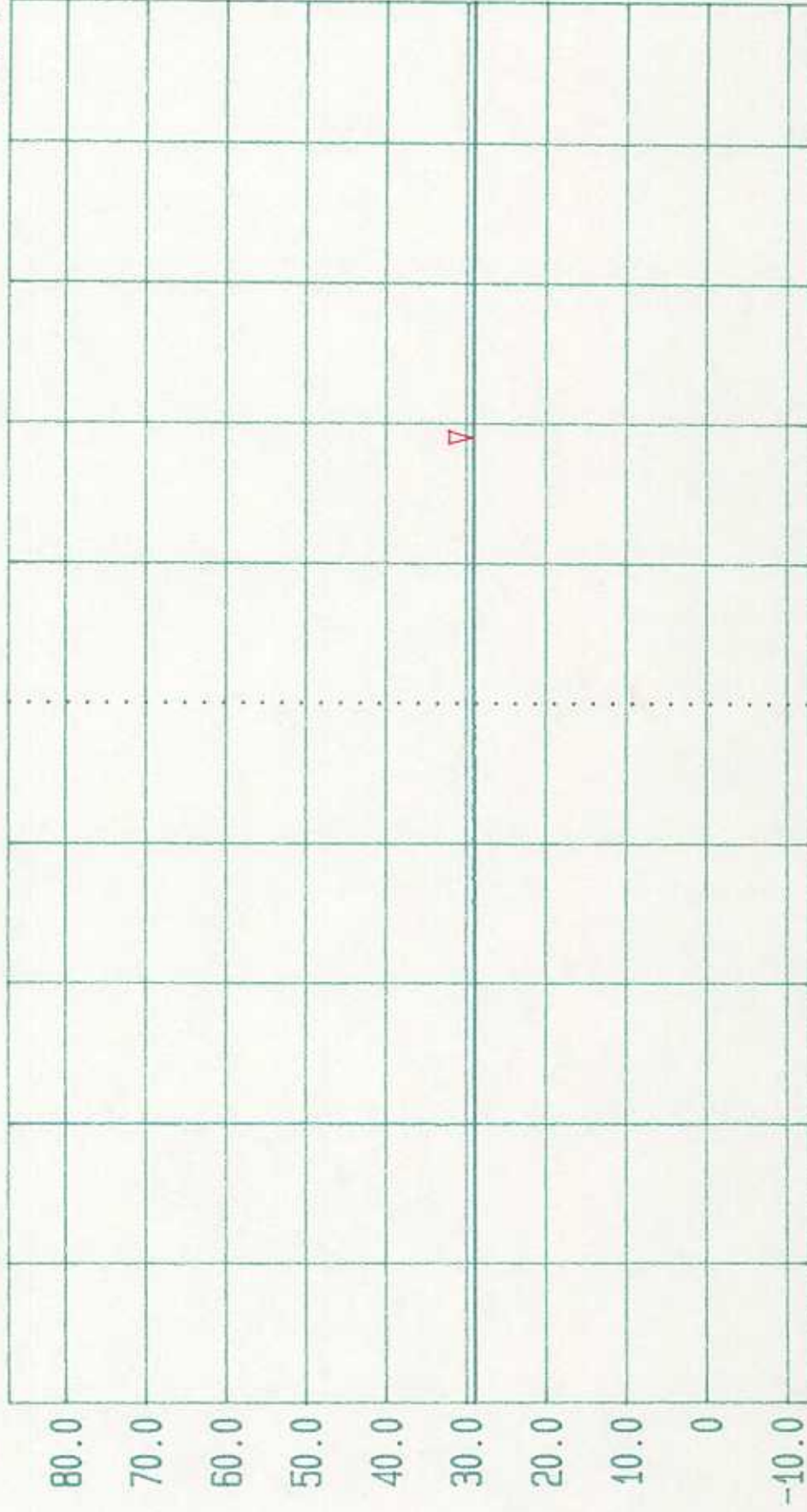
Start 11.63671 GHz
Span 10 MHz
Center 11.64171 GHz
Sweep 15.0 s
Stop 11.64671 GHz



Date 05.Aug.'03 Time 23:35:35

Ref.Lvl 87.00 dB μ V
Marker 29.06 dB μ V
17.46457 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 5.820 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 17.45767 GHz
Span 10 MHz
Center 17.46267 GHz
Sweep 15.0 s
Stop 17.46767 GHz



Date 07.Aug.'03 Time 21:12:43

Ref.Lvl 87.00 dBμV

Marker 28.98 dBμV

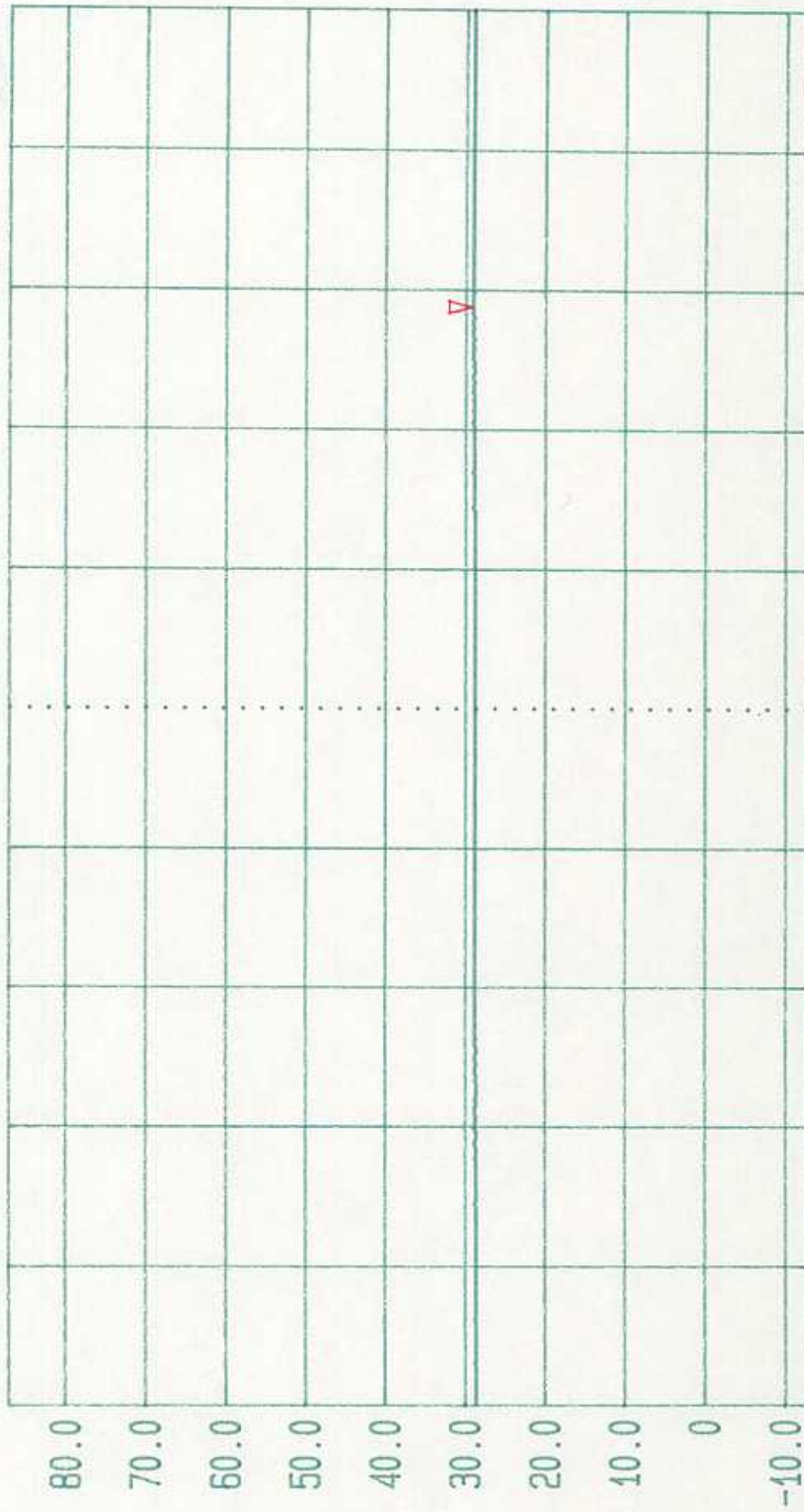
23.28612 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.820 GHz

Vid.Bw
RF:Att
Unit

10 Hz
10 dB
[dBμV]



Start
23.27824 GHz

Span
10 MHz

Center
23.28324 GHz

Sweep
15.0 s

Stop
23.28824 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: High
Antenna: 14dBi Patch



Date 13.Aug.'03 Time 02:46:58

Ref.Lvl

87.00 dB μ V

Marker

34.59 dB μ V

11.64236 GHz

Res.Bw

TG.Lvl

CF.Stp

1 MHz [imp]

off

5.820 GHz

Vid.Bw

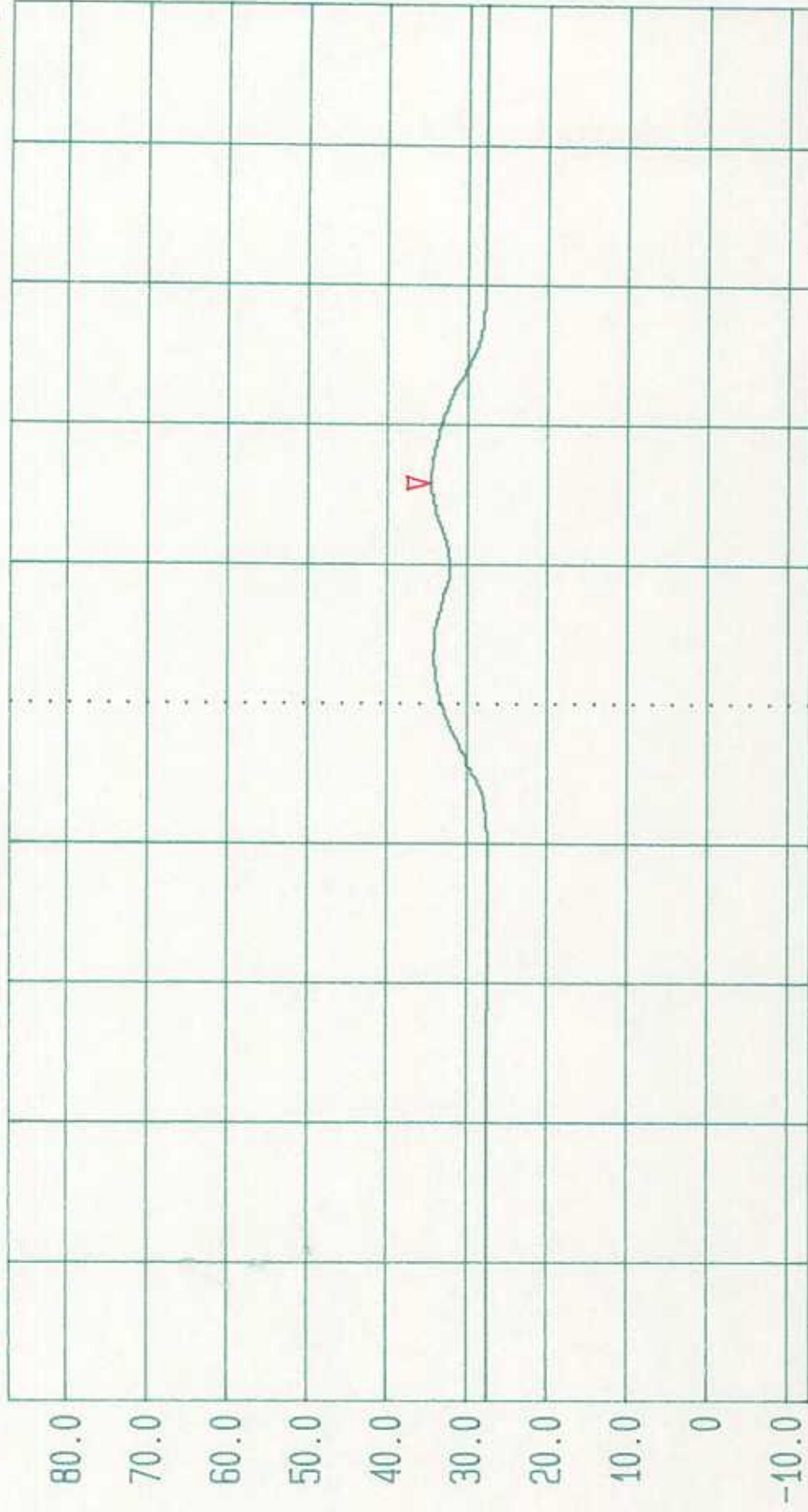
RF.Att

Unit

10 Hz

10 dB

[dB μ V]



Start
11.63577 GHz

Span
10 MHz

Center
11.64077 GHz

Sweep
15.0 s

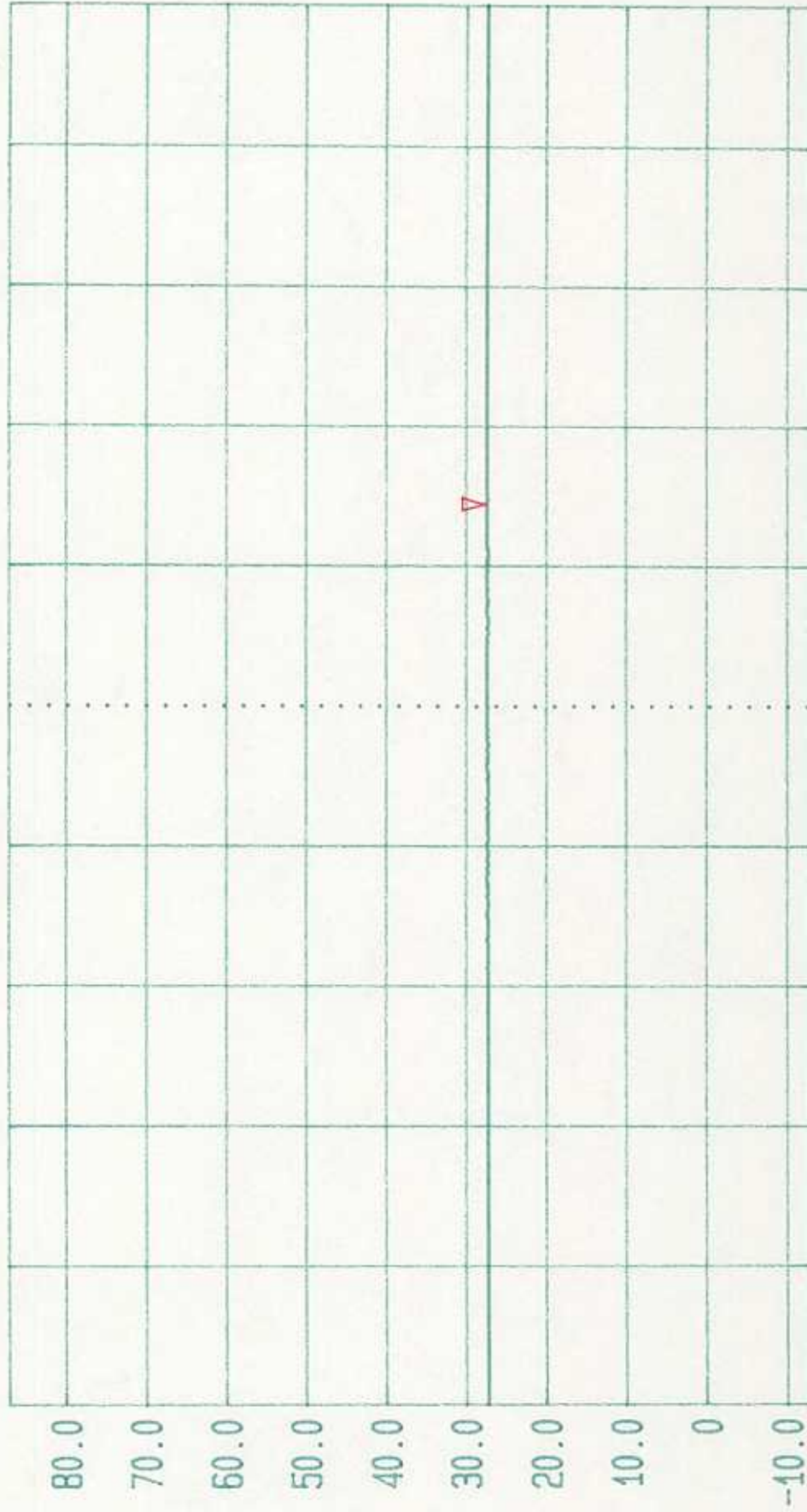
Stop
11.64577 GHz



Date 06.Aug.'03 Time 22:35:59

Ref.Lvl 87.00 dBμV
Marker 27.30 dBμV
17.46391 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.820 GHz
Vid.Bw 10 Hz
AF.Att 10 dB
Unit [dBμV]



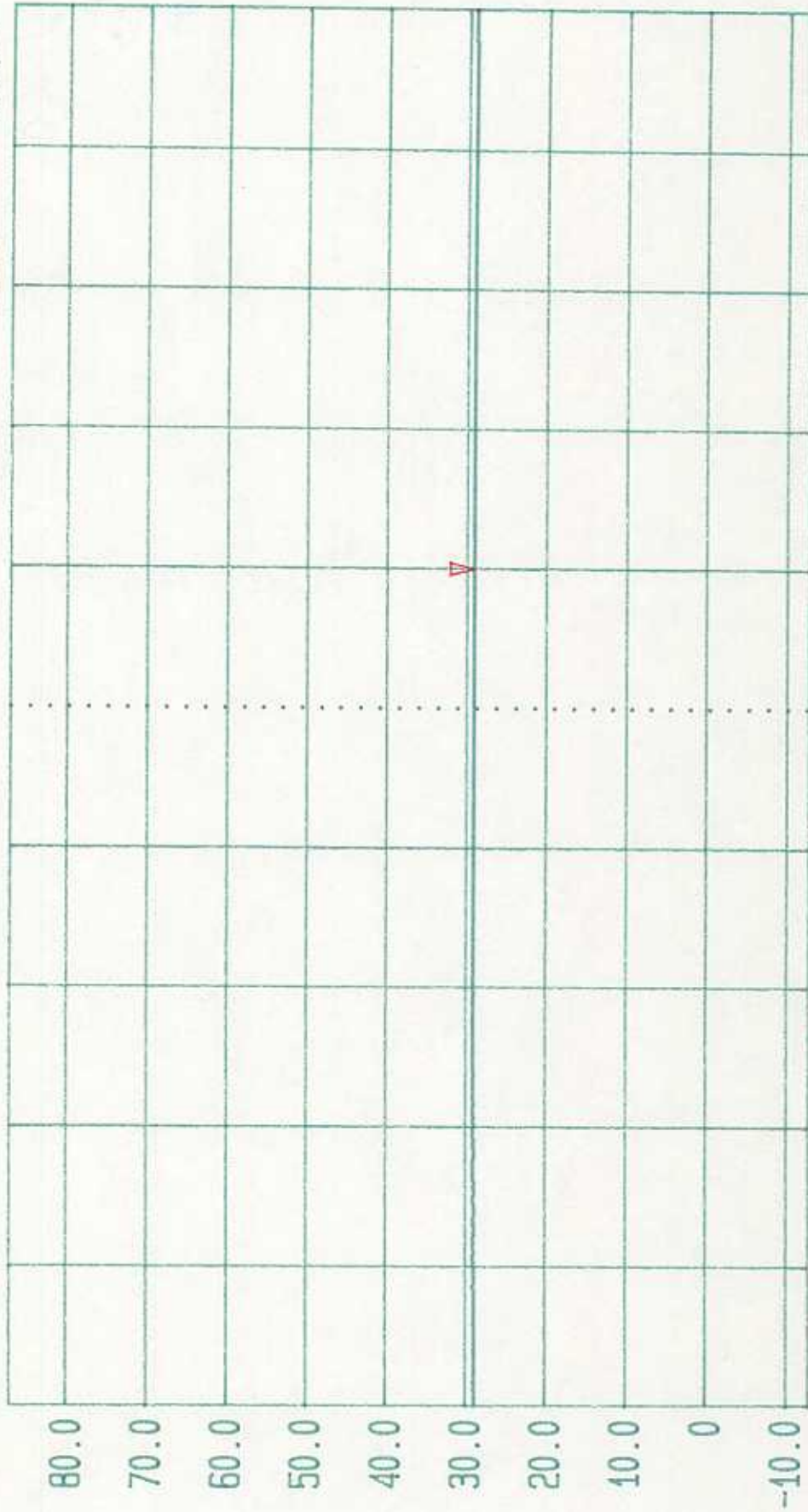
Start 17.45746 GHz
Span 10 MHz
Center 17.46246 GHz
Sweep 15.0 s
Stop 17.46746 GHz



Date 07.Aug.'03 Time 21:49:29

Ref.Lvl 87.00 dBμV
Marker 29.13 dBμV
23.28175 GHz

Res.Bw 1 MHz [imp]
TG.Lvl Off
CF.Stp 5.820 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBμV]



Start 23.27575 GHz Span 10 MHz Center 23.28075 GHz Sweep 15.0 s Stop 23.28575 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: High
Antenna: Large Omni



Date 13.Aug.'03 Time 03:42:50

Ref.Lvl
87.00 dBμV

Marker

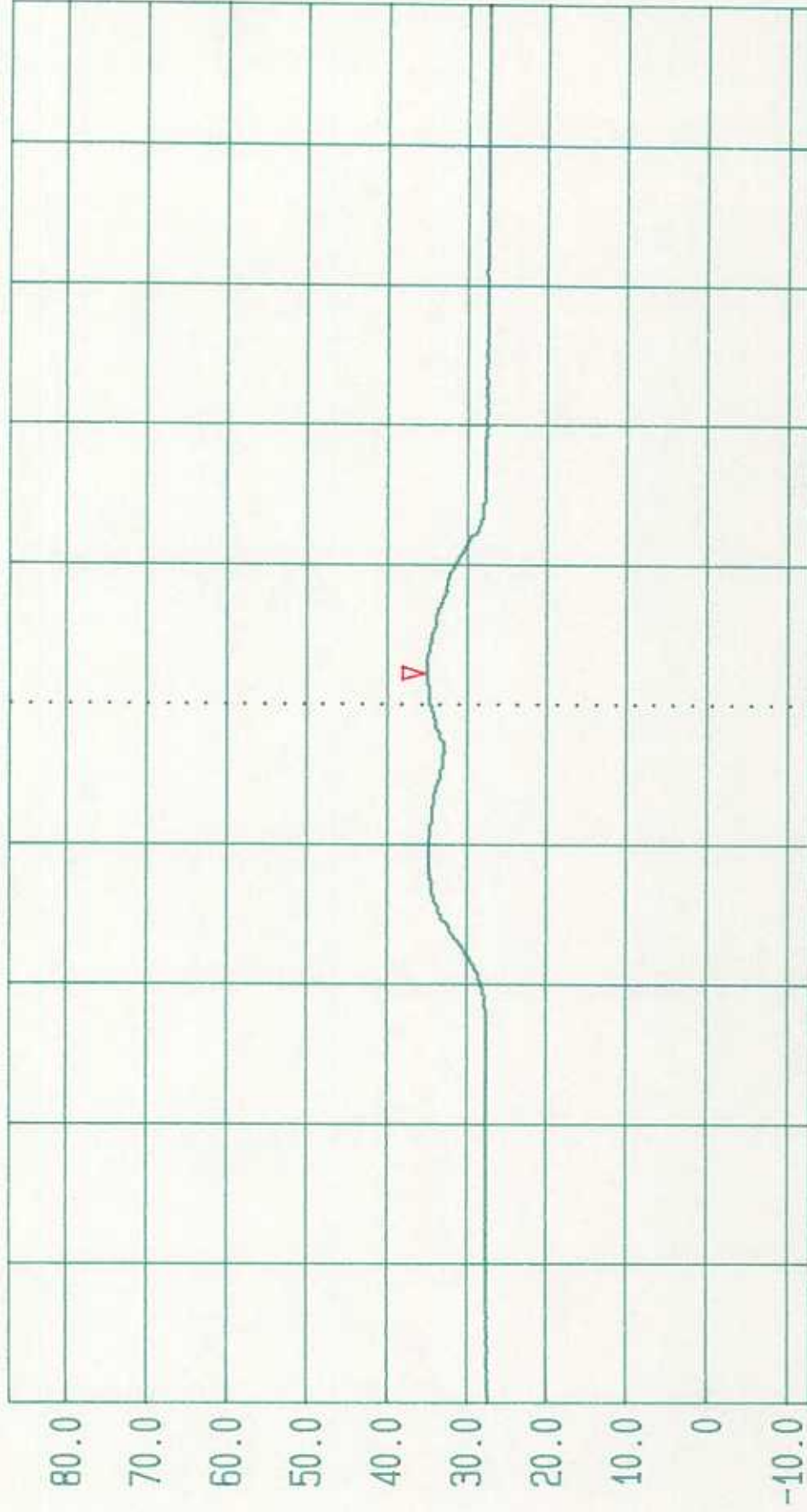
35.25 dBμV
11.64194 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.820 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBμV]



Start
11.63671 GHz

Span
10 MHz

Center
11.64171 GHz

Sweep
15.0 s

Stop
11.64671 GHz



Date 07. Aug. '03 Time 02:48:10

Ref. Lvl

87.00 dBμV

Marker

27.30 dBμV

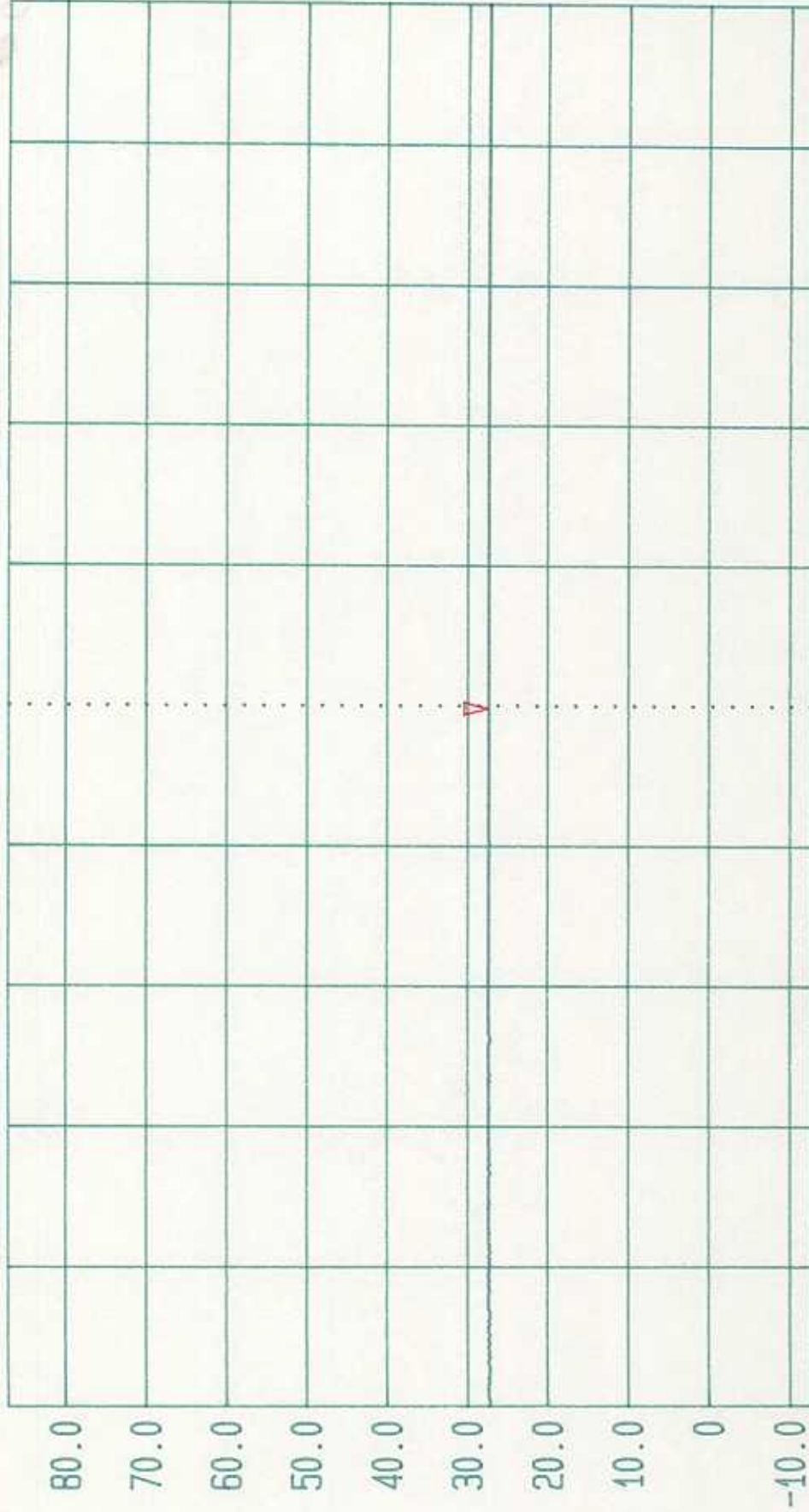
17.46251 GHz

Res. Bw
TG. Lvl
CF. Stp

1 MHz [imp]
off
5.820 GHz

Vid. Bw
RF. Att
Unit

10 Hz
10 dB
[dBμV]



Start
17.45752 GHz

Span
10 MHz

Center
17.46252 GHz

Sweep
15.0 s

Stop
17.46752 GHz



Date 07.Aug.'03 Time 04:28:39

Ref.Lvl
87.00 dBμV

Marker

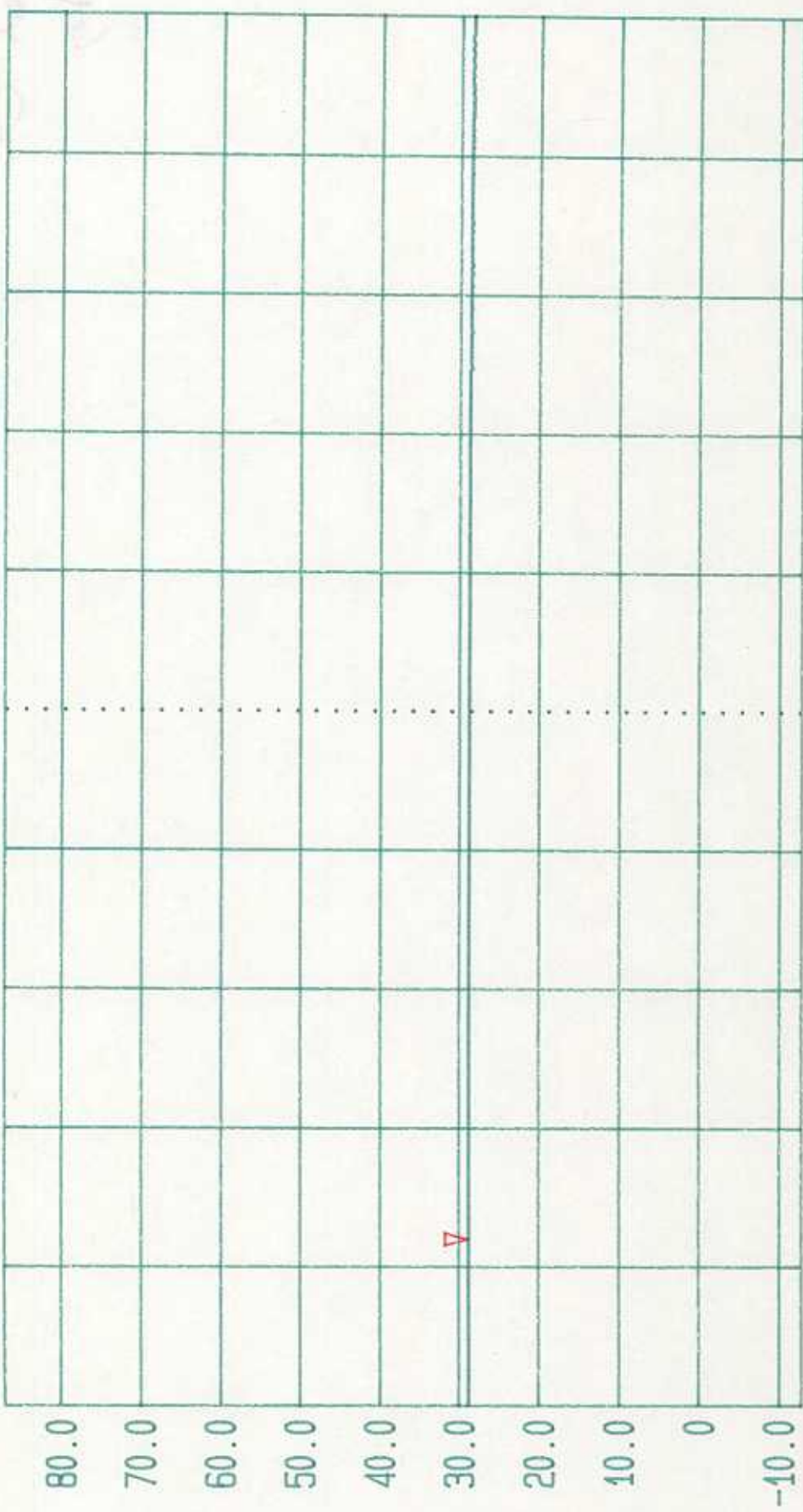
28.85 dBμV
23.27948 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.820 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBμV]



Start
23.27828 GHz

Span
10 MHz

Center
23.28328 GHz

Sweep
15.0 s

Stop
23.28828 GHz