



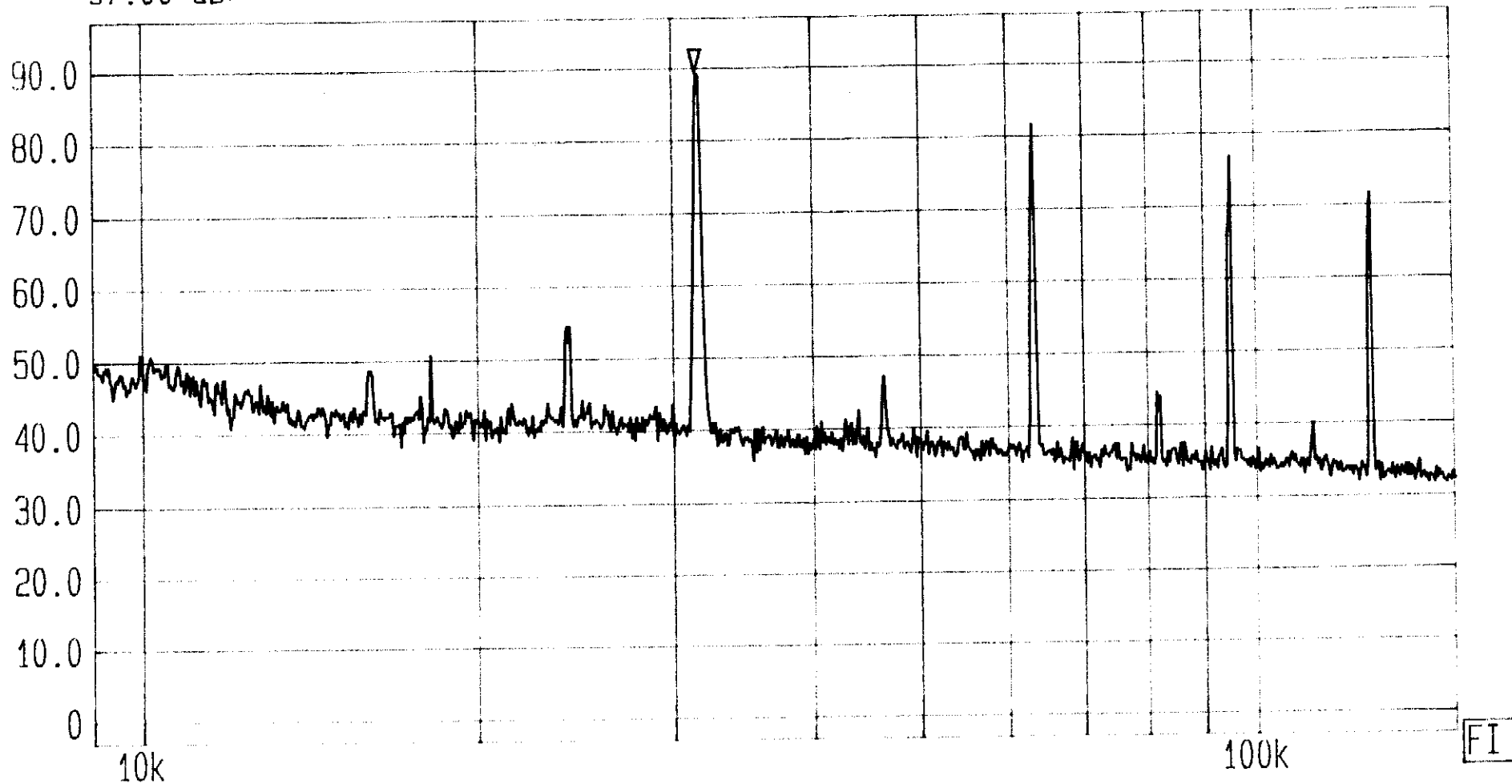
Date 09.May.'97 Time 10:18:22
Ref.Lvl 97.00 dB*
Marker 89.46 dB*
31.52 kHz

Res.Bw
TG.Lvl
CF.Stp

200 Hz [imp]
off
14.100 kHz

Vid.Bw
RF.Att
Unit

3 kHz
20 dB
[dB μ V/m]



Start
9 kHz

Span
141 kHz

Center
36.742 kHz

Sweep
4.4 s

Stop
150 kHz

Radiated. Tested by RFI for Raytheon Marine.
Limit: 135.2 dB μ V/m @ 3m. Screened Room Scan

EUT: SV72.

FCC Part 80
GPH/35009/E01/003

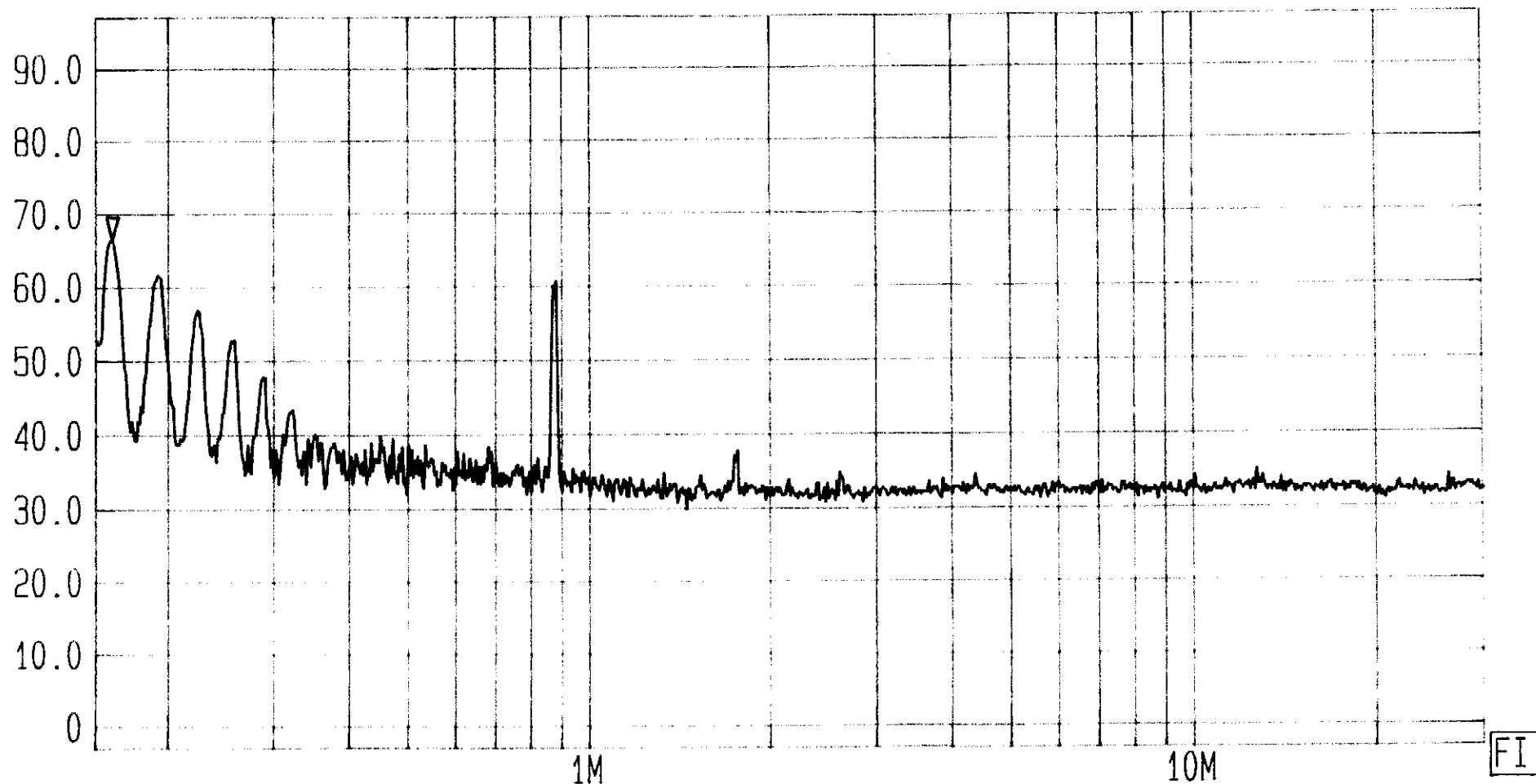


Date 09.May.'97 Time 10:24:59
Ref.Lvl 97.00 dBx
Marker 66.51 dB*
160.0 kHz

Res.Bw
TG.Lvl
CF.Stp

9 kHz [imp]
off
2.985 MHz

Vid.Bw 100 kHz
RF.Att 0 dB
Unit [dBμV/m]



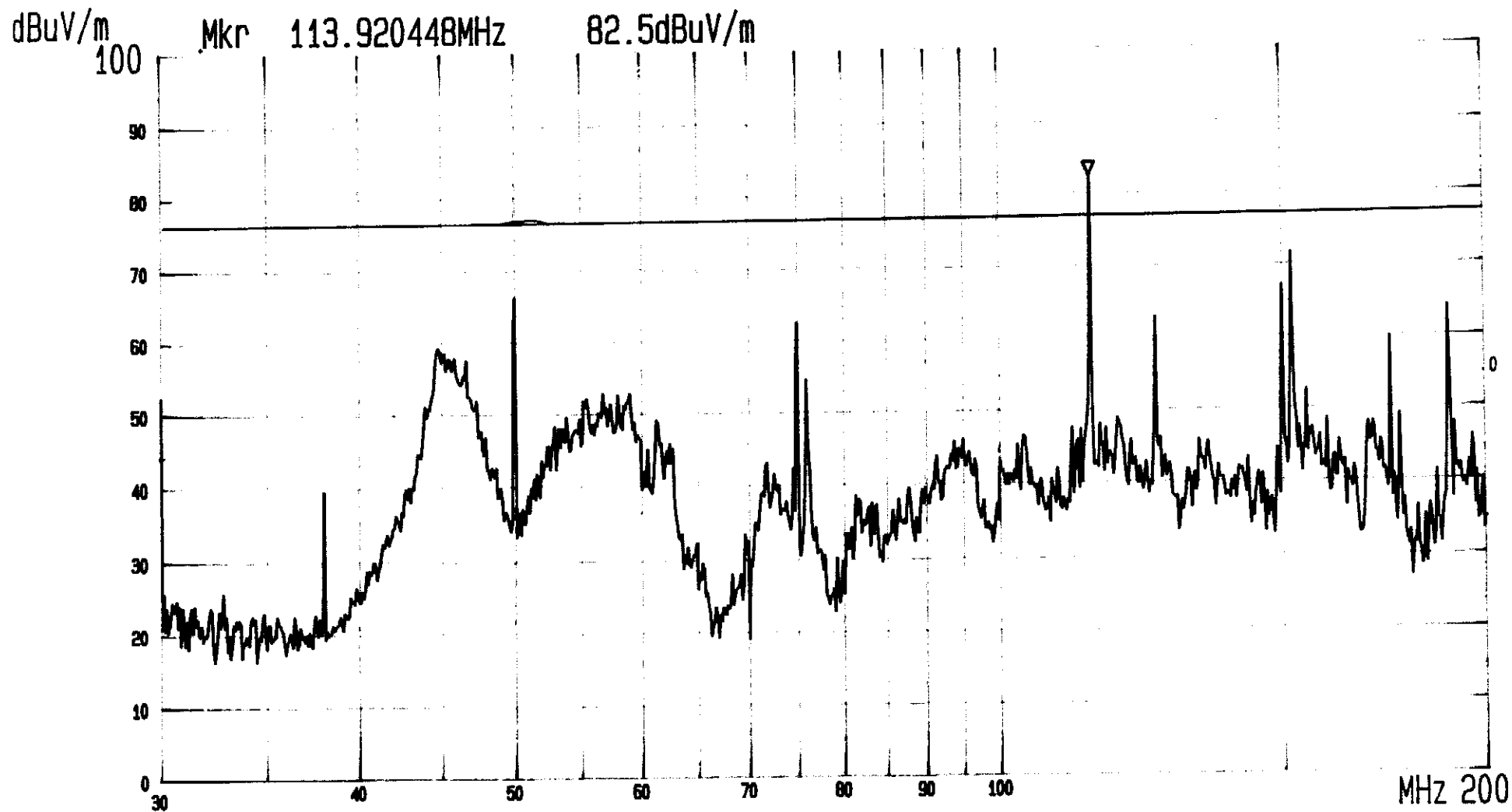
FI

Start	Span	Center	Sweep	Stop
150 kHz	29.85 MHz	2.12132 MHz	60 ms	30 MHz

Radiated. Tested by RFI for Raytheon Marine.
Limit: 135.2 dBuV/m @ 3m. Screened Room Scan

EUT: SV72.

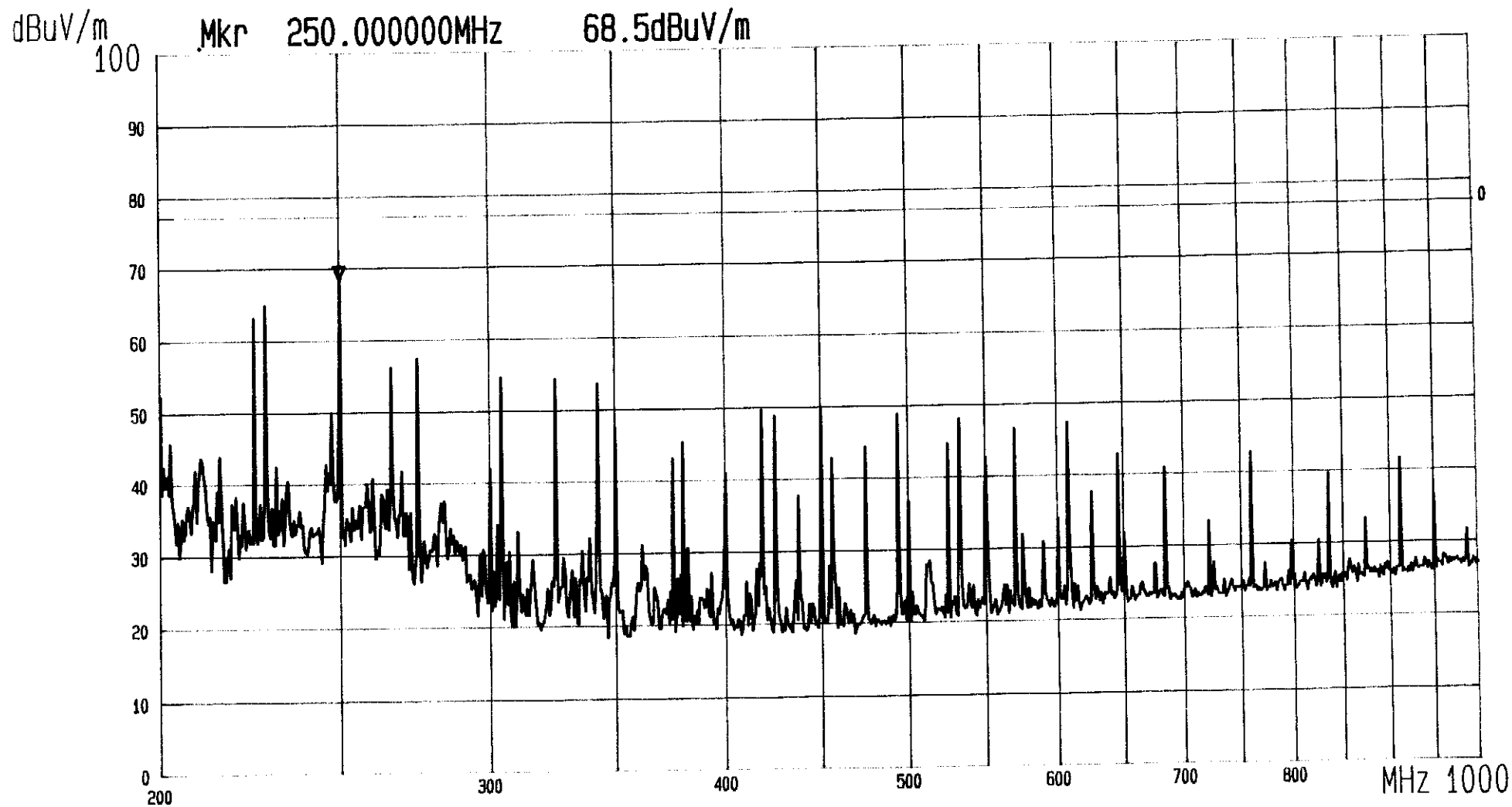
FCC Part 80
GPH/35009/E01/004



--- Date 01.APR.'97 Time 09:15:14
 Radiated. Tested by RFI for Raytheon Marine.
 Limit. ~~of FCC Part 80.217. Limit 0.3m~~
 FCC PART 2.993 LIMIT. ERP

EUT: SV72.
 3M SCAN.

FCC Part 80 2
 GPH/34784/E01/001



--- Date 01.APR.'97 Time 10:50:53
Radiated. Tested by RFI for Raytheon Marine.
Limit. FCC Part 2.993. Limit. ERP. 3m Scan

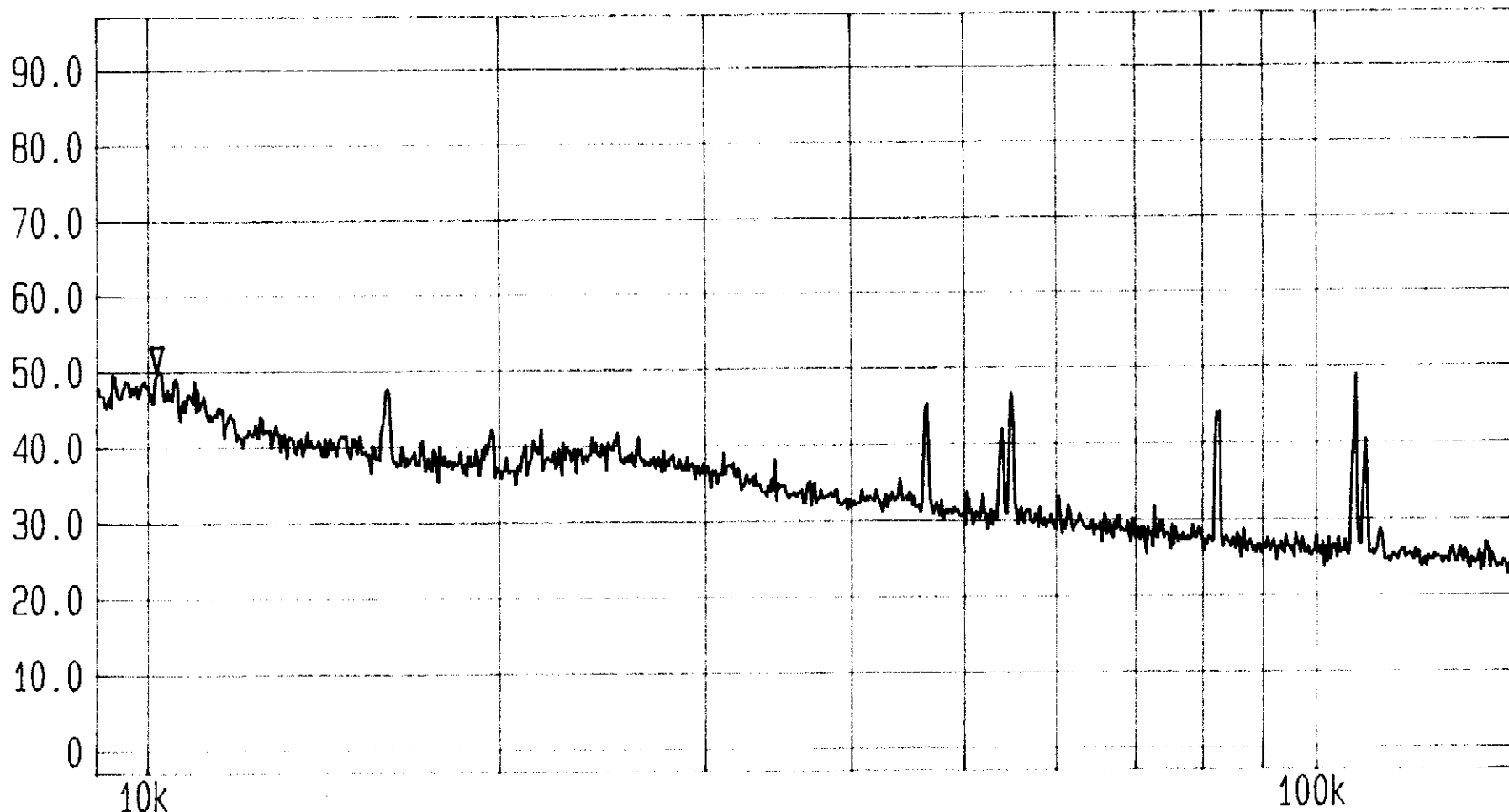
EUT: SV72.

FCC Part 2
GPH/34784/E01/002



Date 09.May.'97 Time 09:39:37
Ref.Lvl 97.00 dBx
Marker 49.95 dBx
10.16 kHz

Res.Bw 200 Hz [imp]
TG.Lvl off
CF.Stp 14.100 kHz
Vid.Bw 3 kHz
RF.Att 0 dB
Unit [dBμV/m]



Start 9 kHz Span 141 kHz Center 36.742 kHz Sweep 4.4 s Stop 150 kHz

Radiated. Tested by RFI for Raytheon Marine.
Limit: 135.2 dBuV/m @ 3m. Screened Room Scan

EUT: SL72.

FCC Part 80
GPH/35009/E01/001



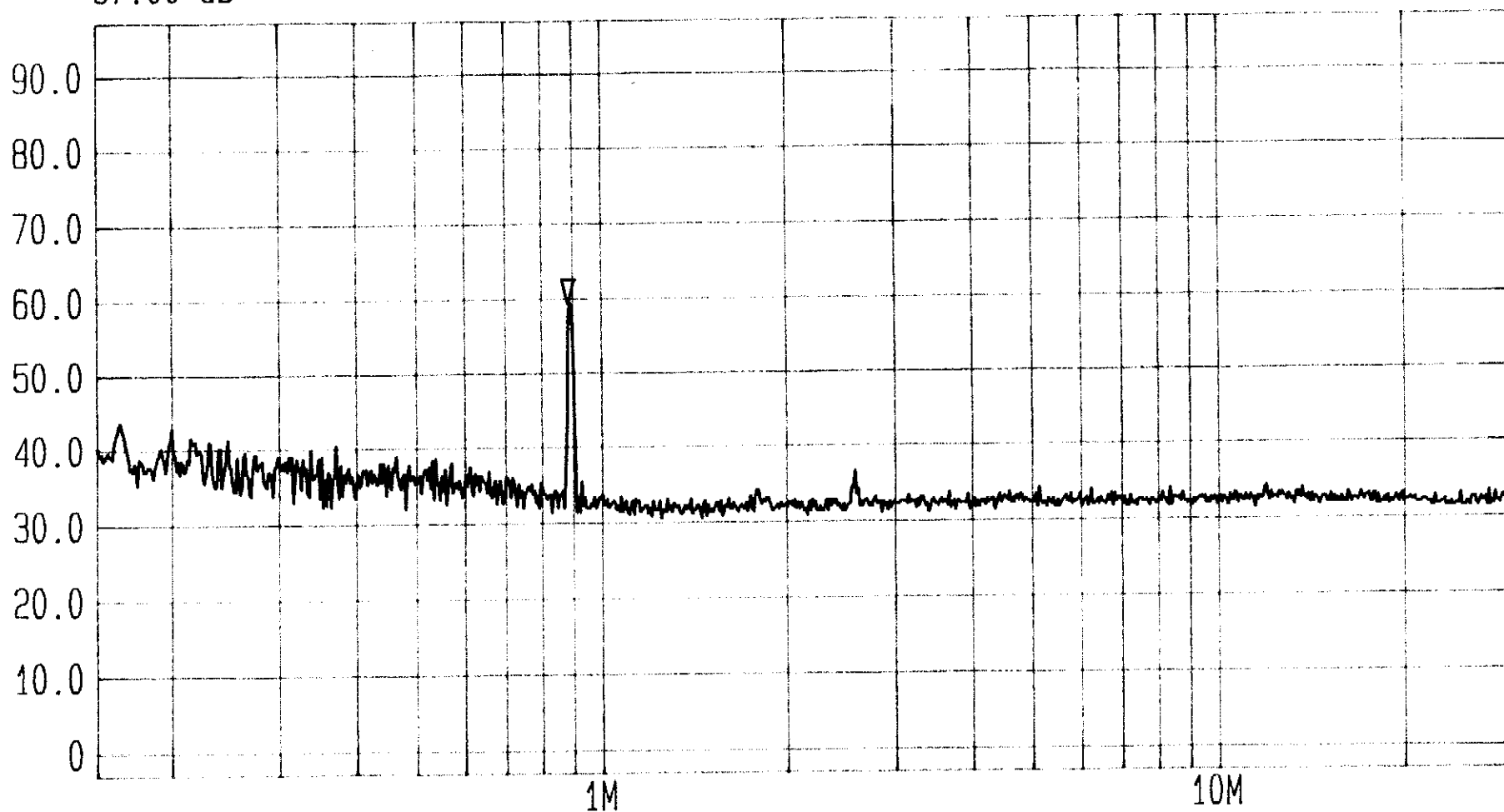
Date 09.May.'97 Time 09:54:06
Ref.Lvl 97.00 dB*
Marker 59.65 dB*
887.5 kHz

Res.Bw
TG.Lvl
CF.Stp

9 kHz [imp]
off
2.985 MHz

Vid.Bw
RF.Att
Unit

100 kHz
0 dB
[dB μ V/m]



Start
150 kHz

Span
29.85 MHz

Center
2.12132 MHz

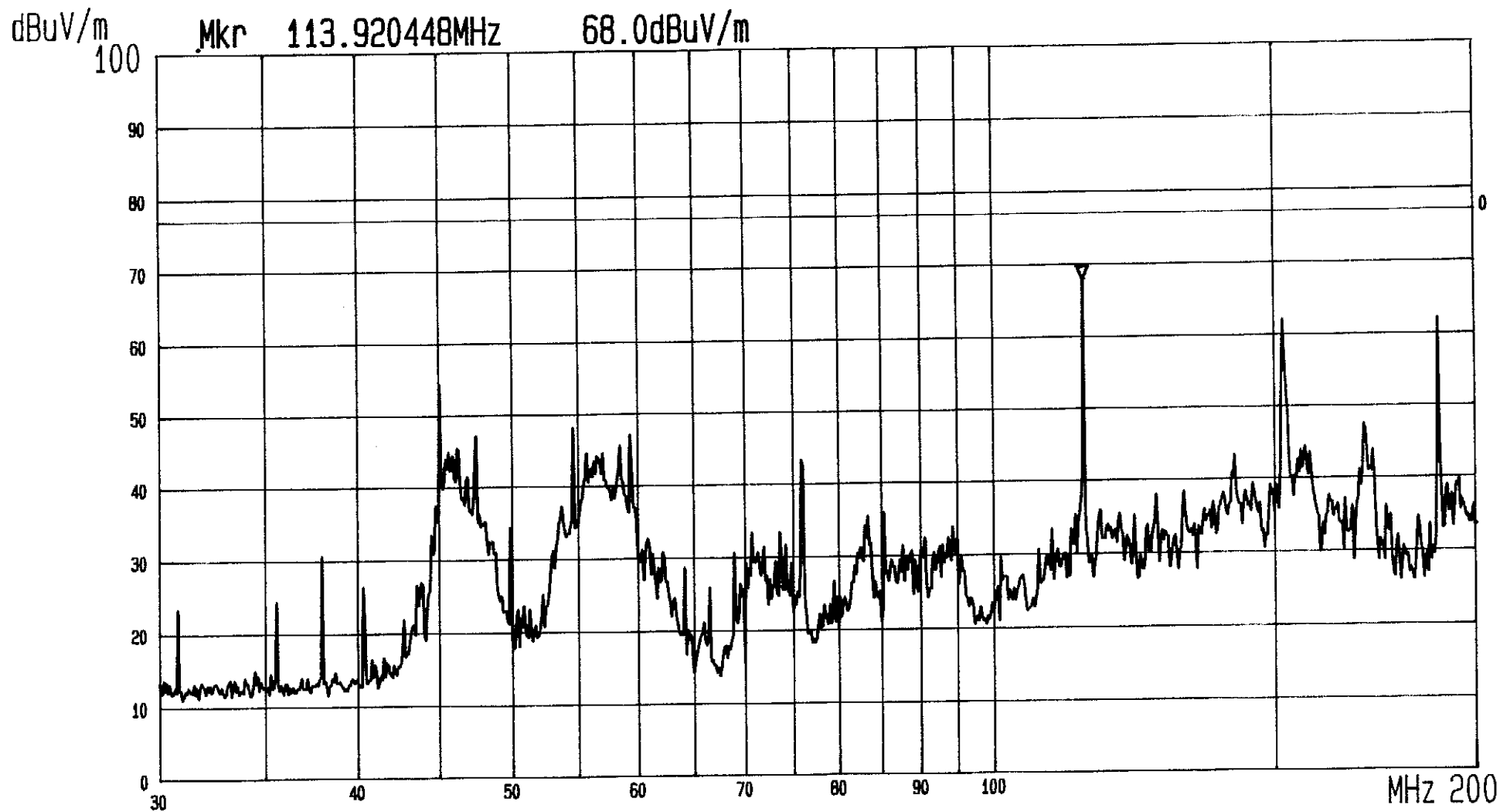
Sweep
1.94 s

Stop
30 MHz

Radiated. Tested by RFI for Raytheon Marine.
Limit: 135.2 dBuV/m @ 3m. Screened Room Scan

EUT: SL72.

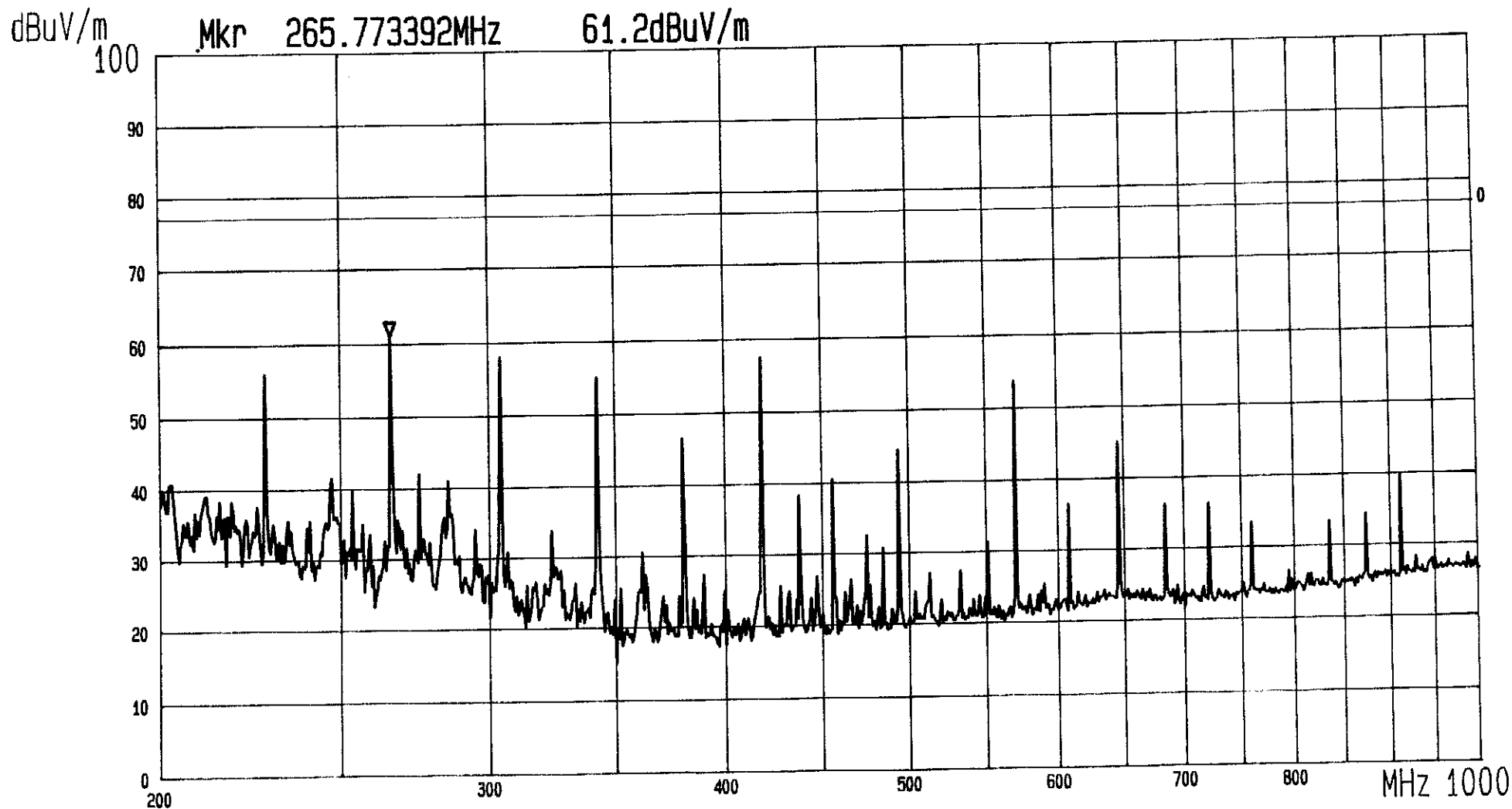
FCC Part 80
GPH/35009/E01/002



--- Date 01.APR.'97 Time 12:07:05
Radiated. Tested by RFI for Raytheon Marine.
Limit. FCC Part 2.993. Limit. ERP. 3m Scan

EUT: SL72.

FCC Part 2
GPH/34784/E01/004



--- Date 01.APR.'97 Time 11:40:01
Radiated. Tested by RFI for Raytheon Marine.
Limit. FCC Part 2.993. Limit. ERP. 3m Scan

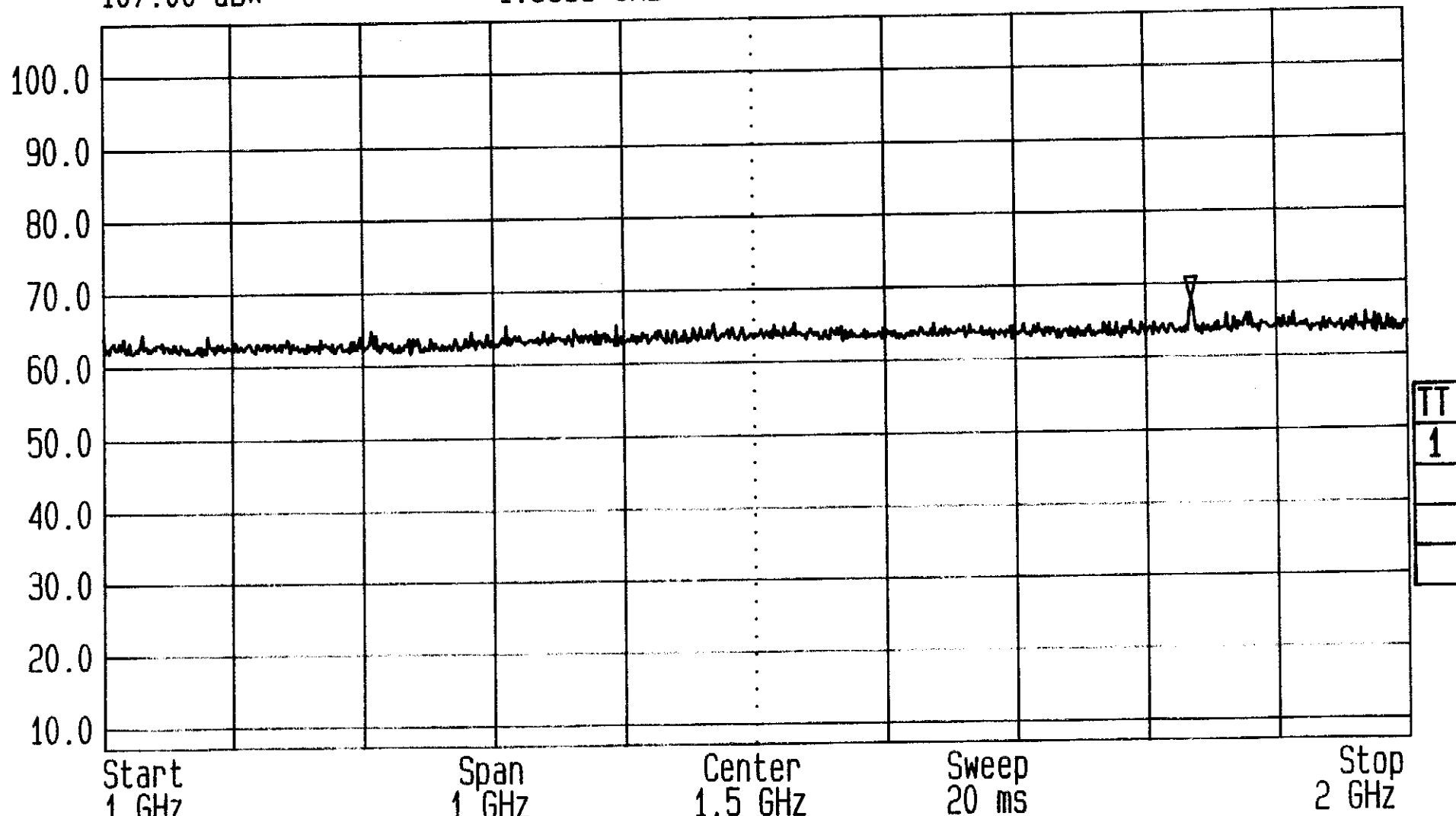
EUT: SL72.

FCC Part 2
GPH/34784/E01/003



Date 29.Apr.'97 Time 16:47:36
Ref.Lvl 107.00 dB*
Marker 67.62 dB*
1.8355 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 100.000 MHz RF.Att 10 dB
Unit [dB μ V/m]

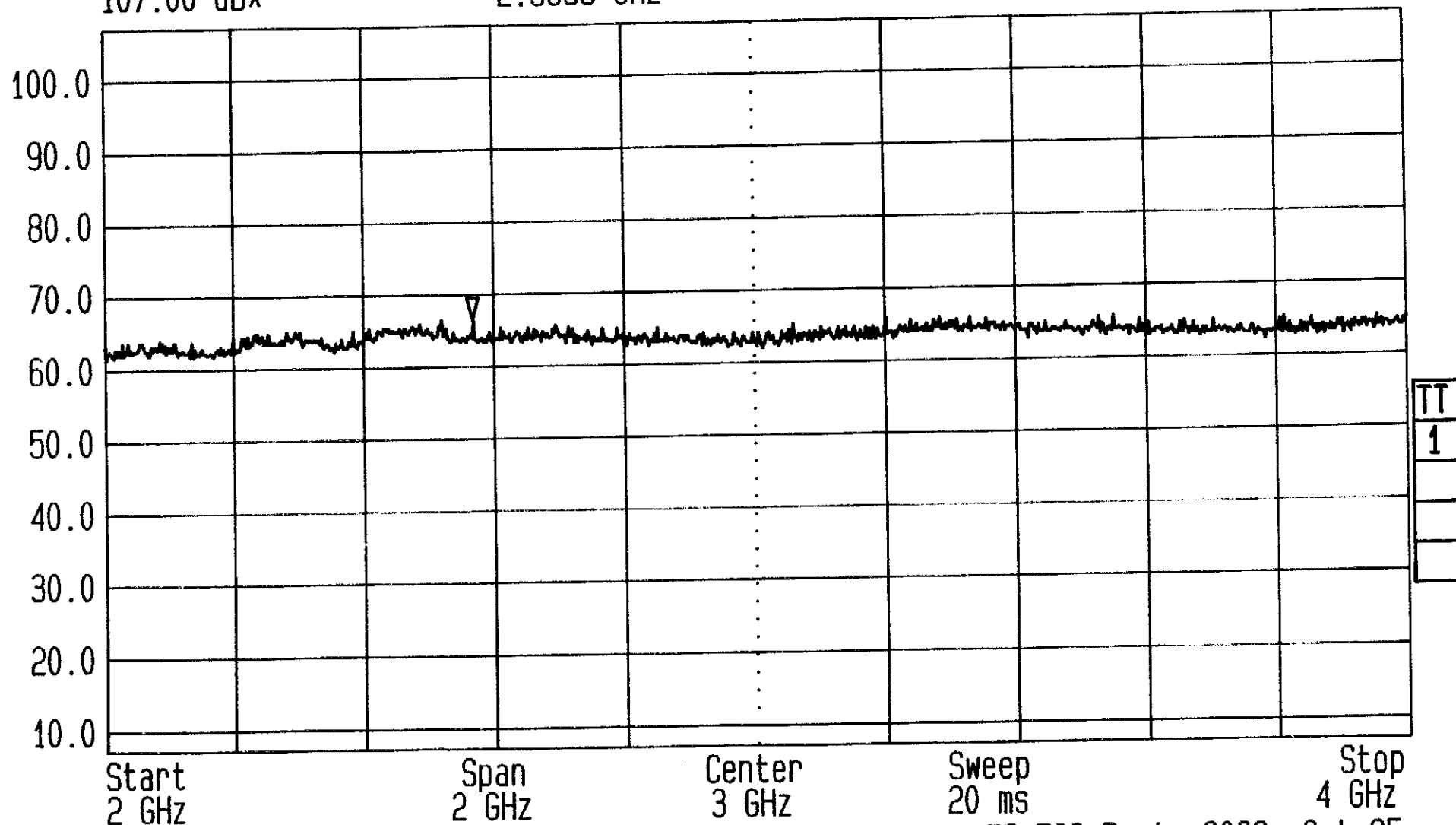


Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dB μ V/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/031



Date 29.Apr.'97 Time 16:43:49
Ref.Lvl 107.00 dBx
Marker 66.43 dBx
2.5688 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 200.000 MHz RF.Att 10 dB
Unit [dBμV/m]

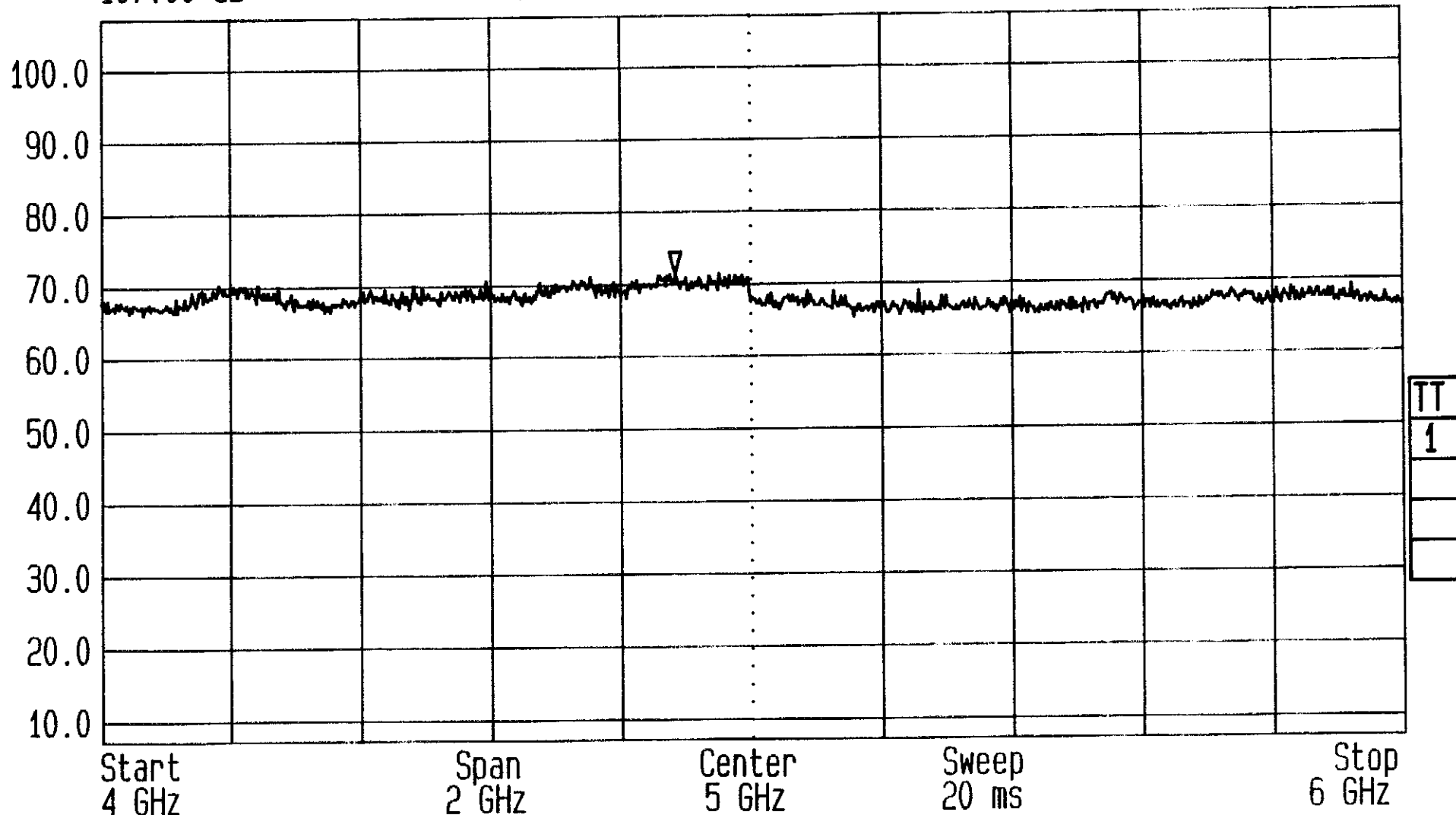


Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/030



Date 29.Apr.'97 Time 16:34:29
Ref.Lvl 107.00 dB* Marker 71.28 dB*
4.8844 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 200.000 MHz RF.Att 10 dB
Unit [dB μ V/m]

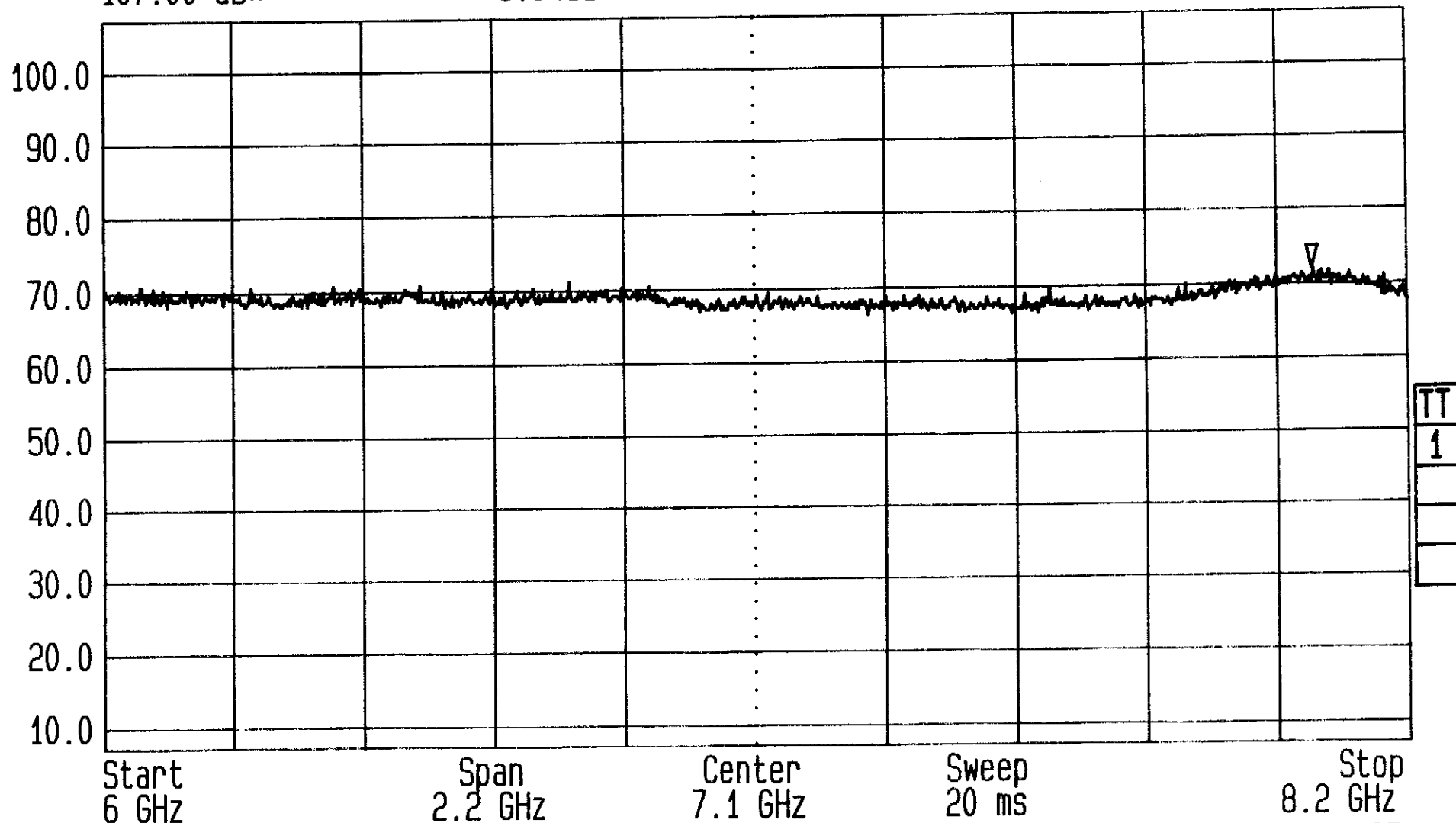


Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dB μ V/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/029



Date 29.Apr.'97 Time 16:26:04
Ref.Lvl 107.00 dB*
Marker 71.83 dB*
8.0411 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 220.000 MHz RF.Att 10 dB
Unit [dB μ V/m]

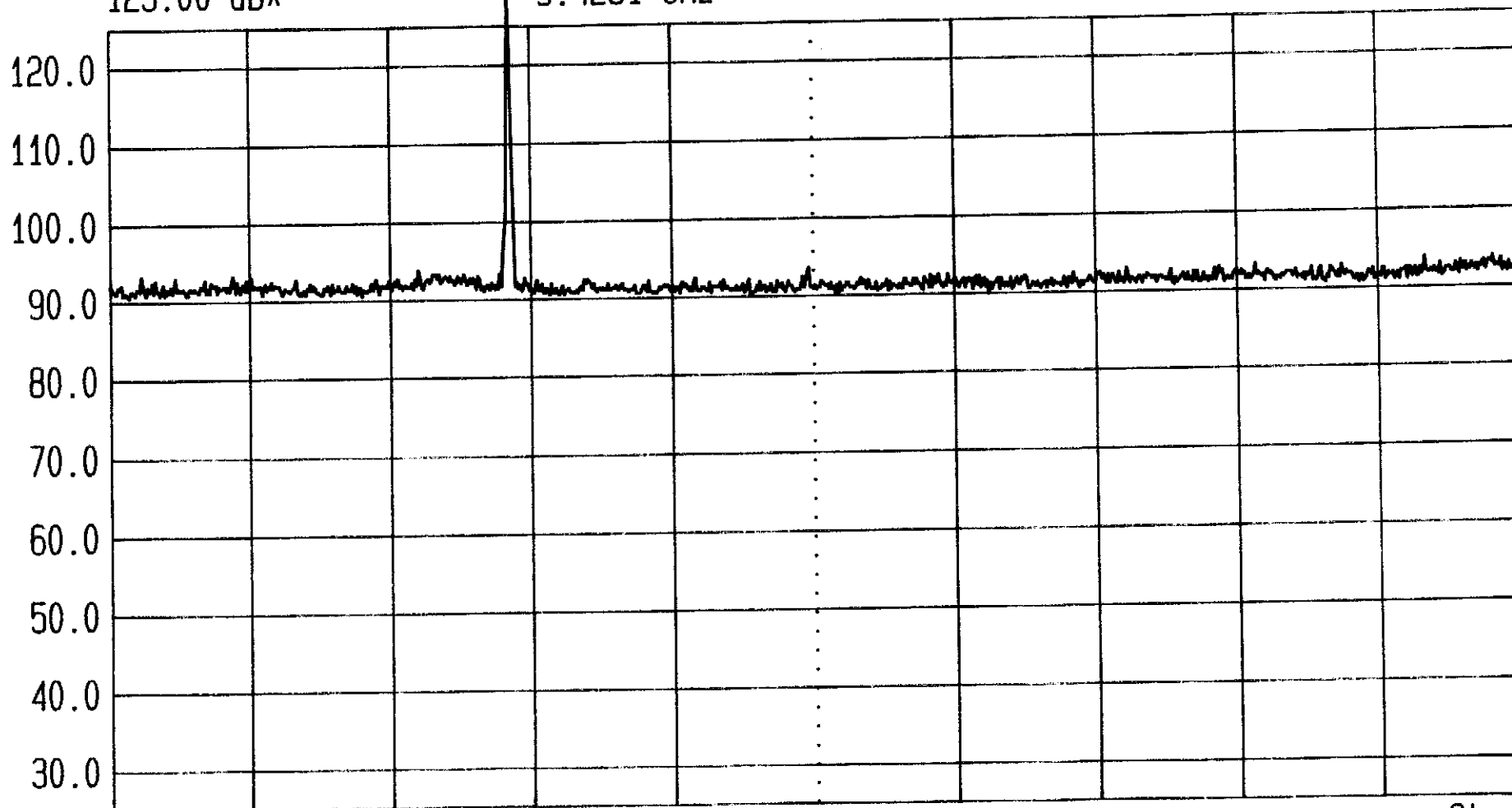


Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/028



Date 29.Apr.'97 Time 15:20:28
Ref.Lvl 125.00 dB*
Marker 128.98 dB*
9.4231 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 430.000 MHz RF.Att 30 dB
Unit [dBμV/m]



TT
1

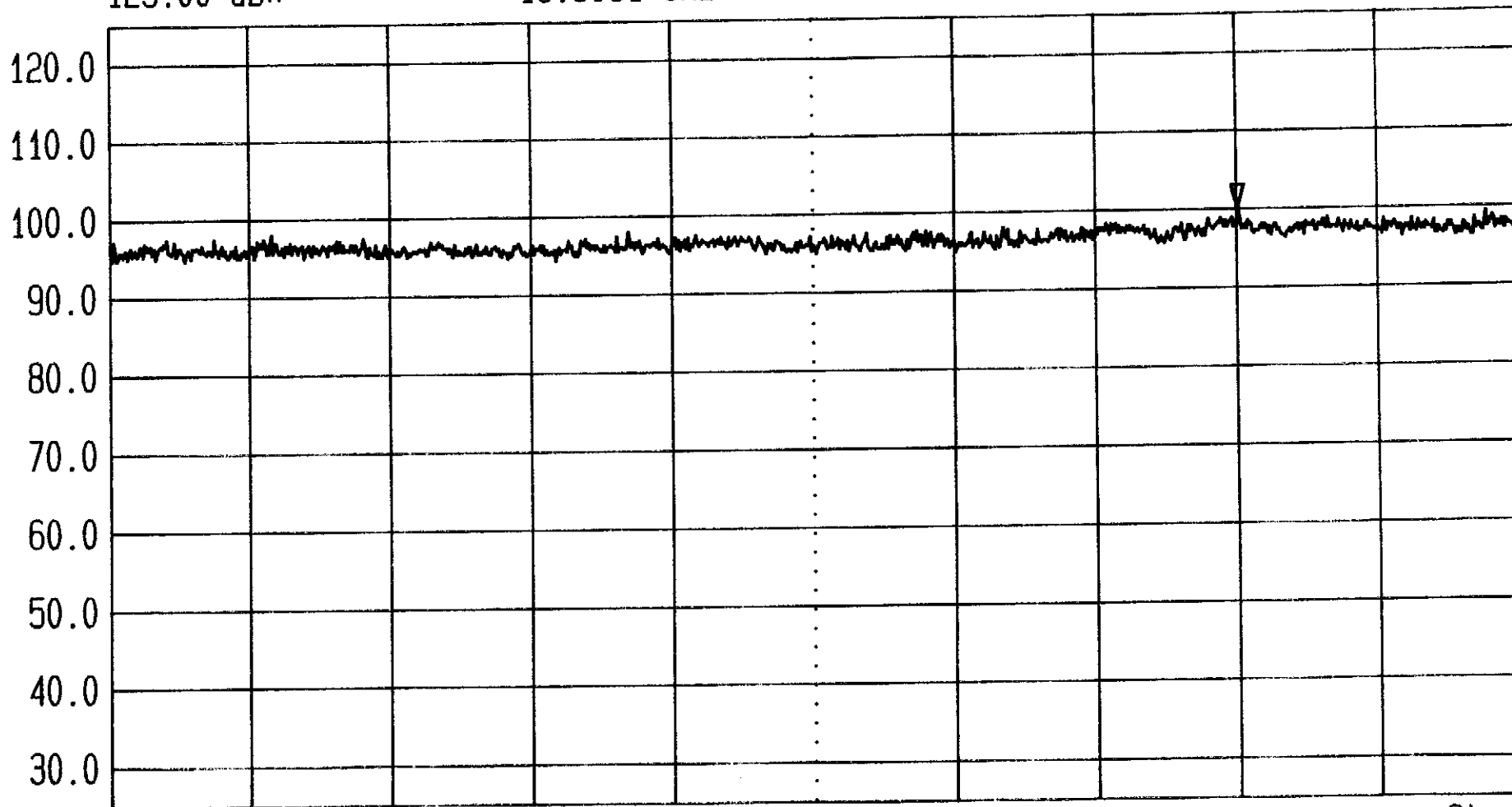
Start 8.2 GHz Span 4.3 GHz Center 10.35 GHz Sweep 20 ms Stop 12.5 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/018



Date 29.Apr.'97 Time 15:24:57
Ref.Lvl 125.00 dB*
Marker 100.22 dB*
16.9061 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 550.000 MHz RF.Att 30 dB
Unit [dBμV/m]



TT
1

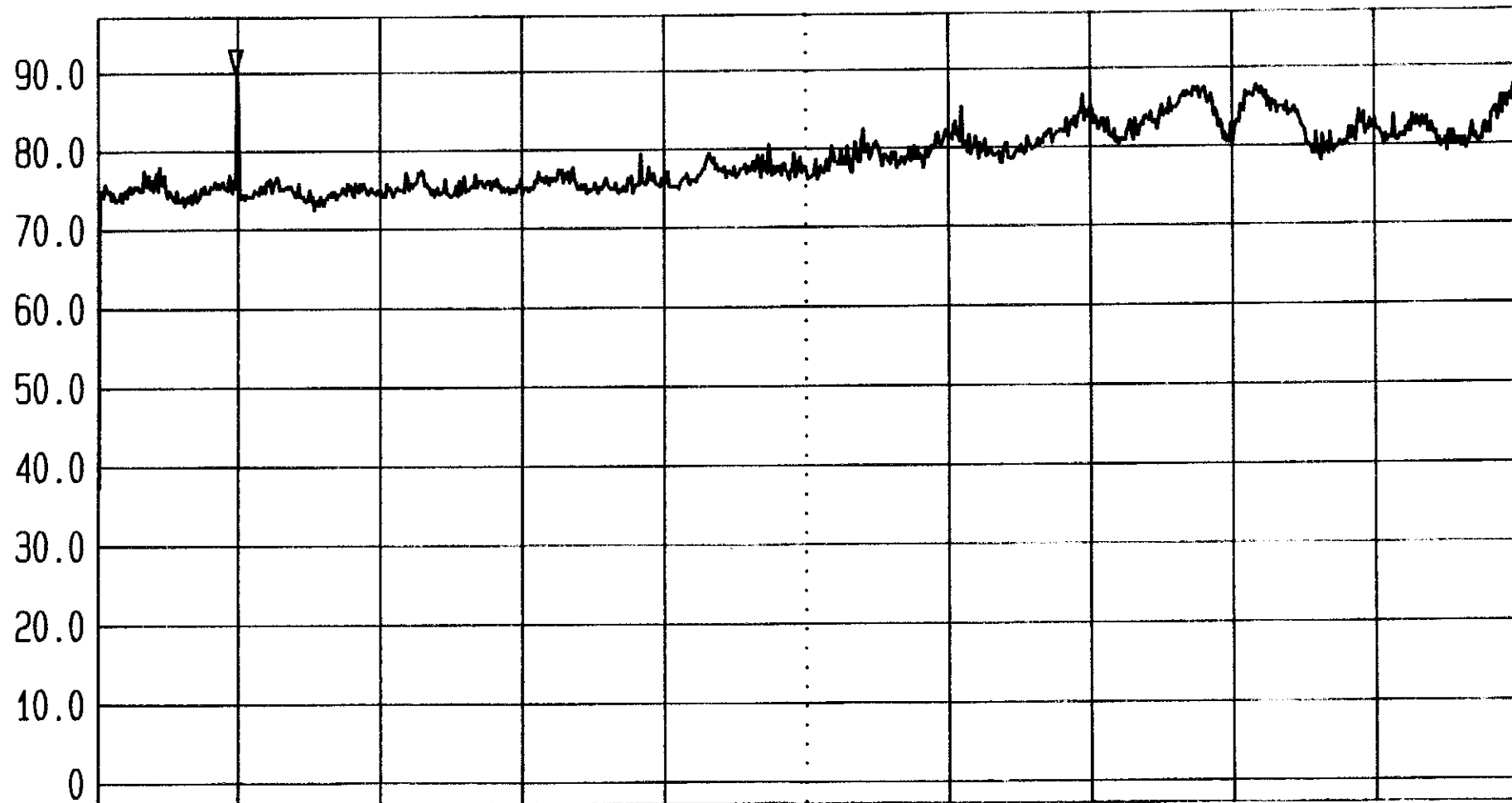
Start 12.5 GHz Span 5.5 GHz Center 15.25 GHz Sweep 40 ms Stop 18 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/019



Date 29.Apr.'97 Time 15:31:46
Ref.Lvl 97.00 dB* Marker 90.05 dB*
18.8405 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 850.000 MHz RF.Att 10 dB
Unit [dBμV/m]



TT
1

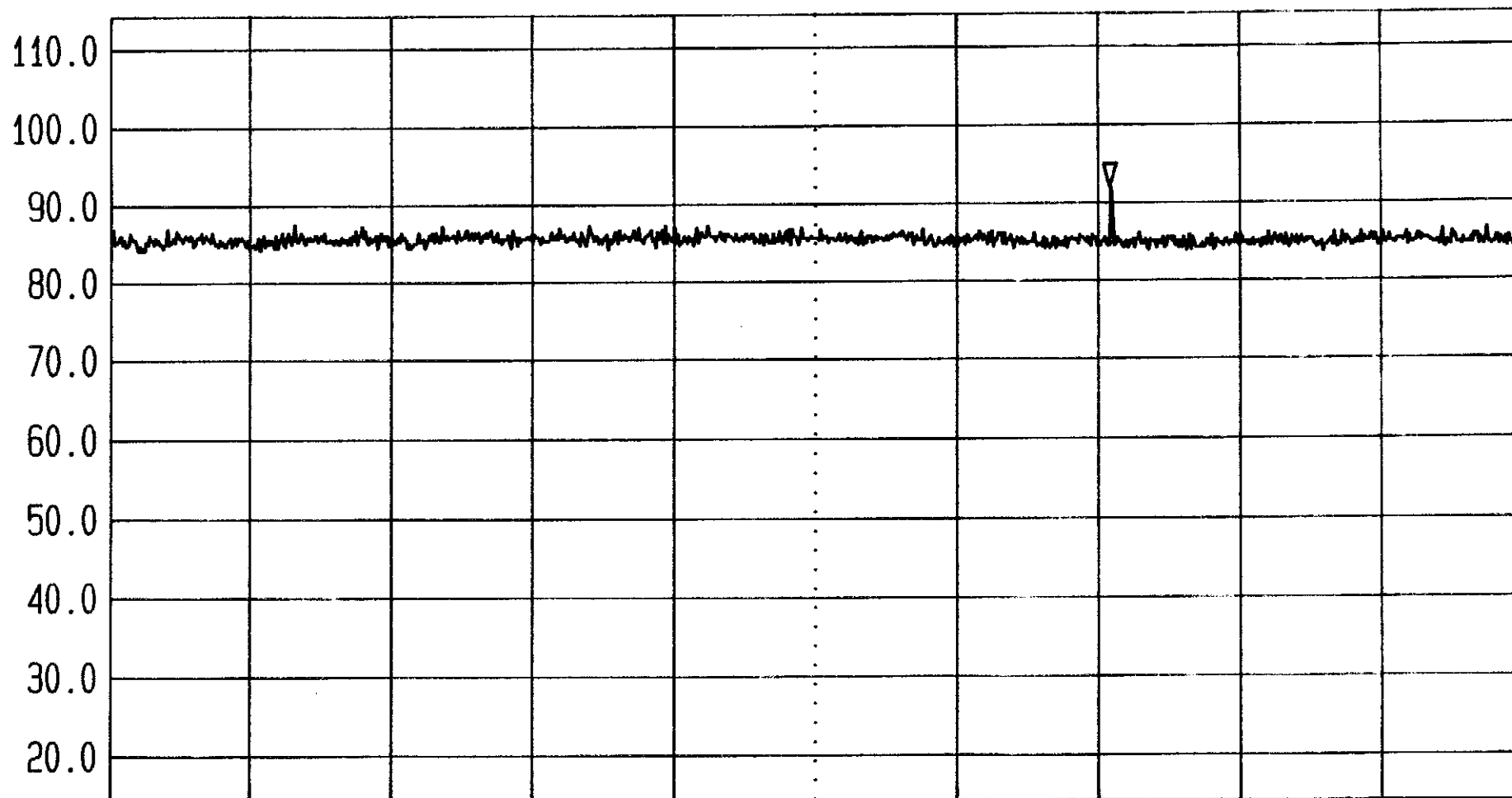
Start 18 GHz Span 8.5 GHz Center 22.25 GHz Sweep 40 ms Stop 26.5 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/020



LVLOFF
Date 29.Apr.'97 Time 15:47:13
Ref.Lvl 114.00 dB*
Marker 91.94 dB*
28.2722 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 250.000 MHz RF.Att 0 dB
Unit [dBμV/m]



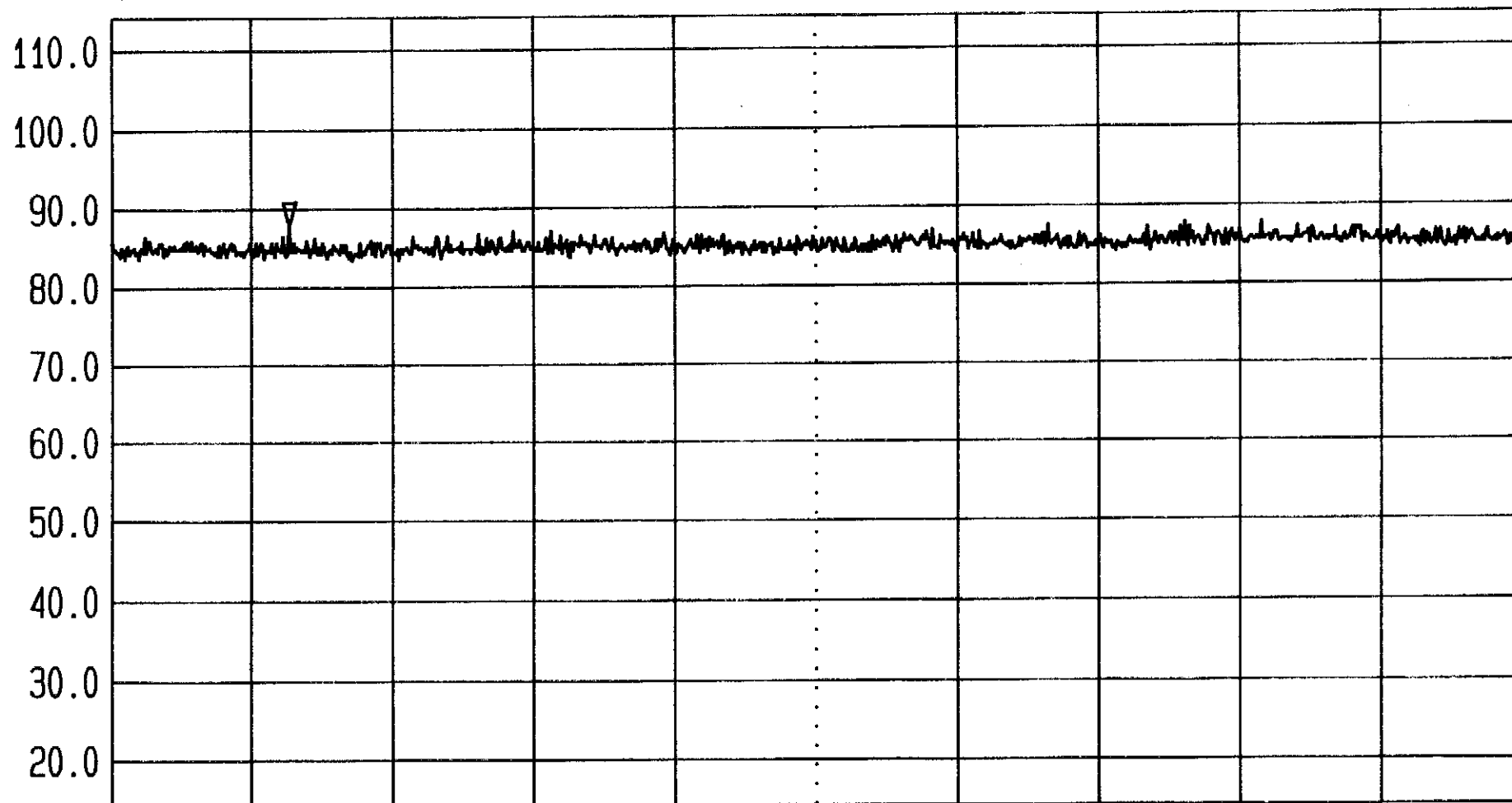
TT
1

Start 26.5 GHz Span 2.5 GHz Center 27.75 GHz Sweep 20 ms Stop 29 GHz
Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/021



LVLOFF
Date 29.Apr.'97 Time 15:49:50
Ref.Lvl 114.00 dB*
Marker 87.80 dB*
29.7600 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 600.000 MHz RF.Att 0 dB
Unit [dBμV/m]



TT
1

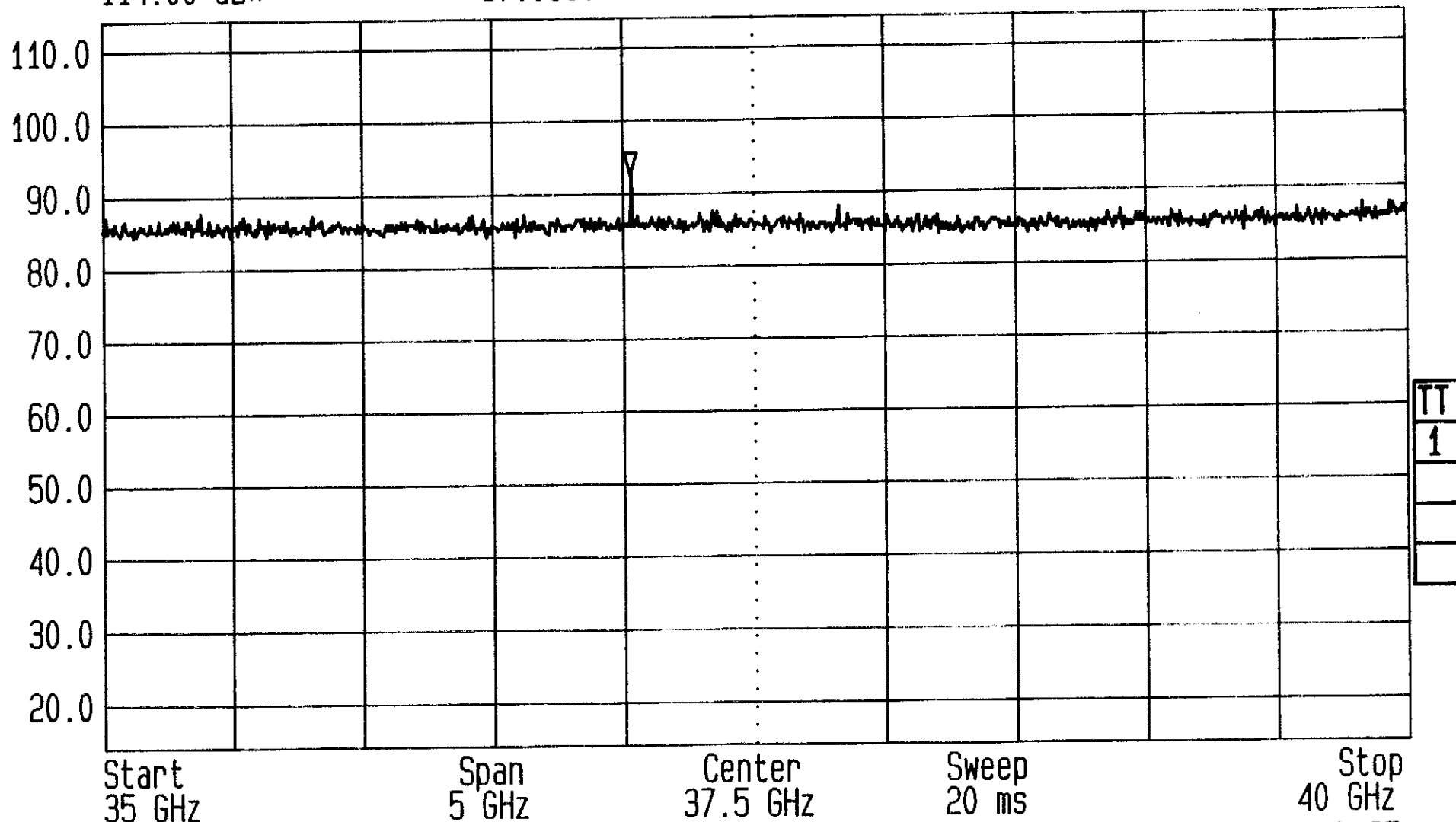
Start 29 GHz Span 6 GHz Center 32 GHz Sweep 20 ms Stop 35 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/022



LVLOFF
Date 29.Apr.'97 Time 15:52:24
Ref.Lvl 114.00 dB*
Marker 92.55 dB*
37.0333 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 500.000 MHz RF.Att 0 dB
Unit [dBμV/m]

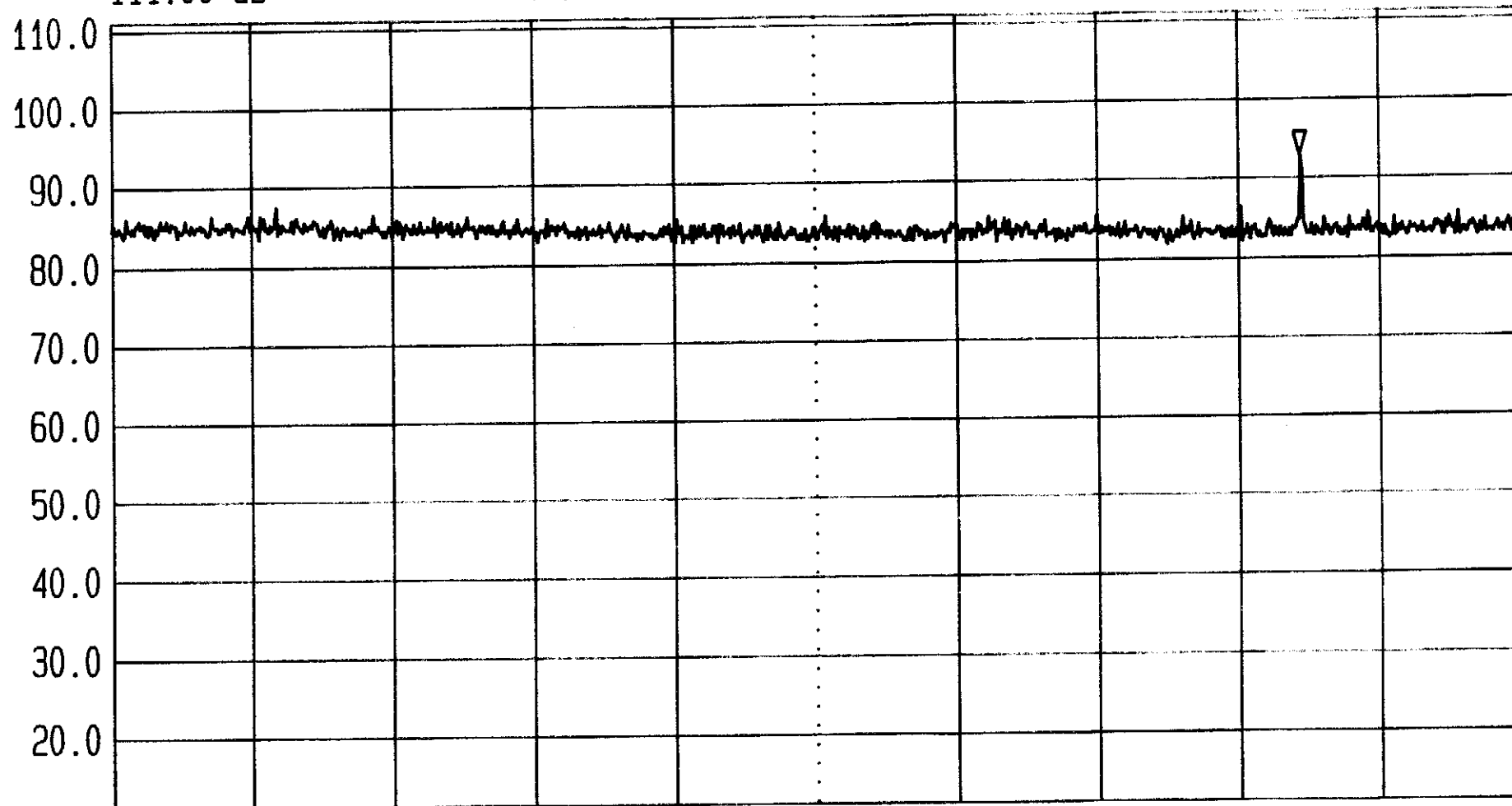


Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/023



LVLOFF
Date 29.Apr.'97 Time 16:00:04
Ref.Lvl 111.00 dB*
Marker 92.80 dB*
48.4444 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 1.000 GHz RF.Att 0 dB
Unit [dB μ V/m]



TT
1

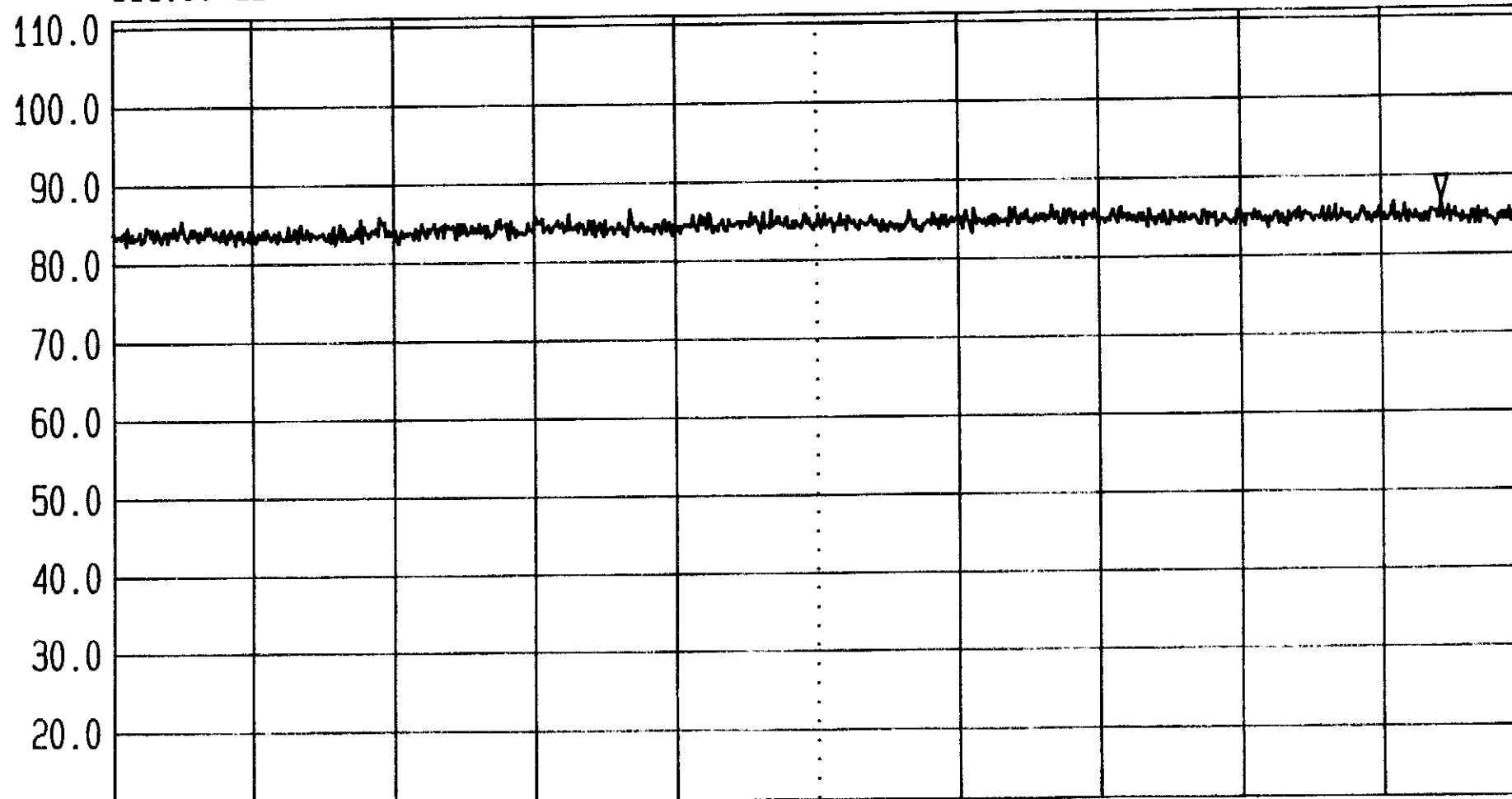
Start 40 GHz Span 10 GHz Center 45 GHz Sweep 40 ms Stop 50 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dB μ V/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/024



LVLOFF
Date 29.Apr.'97 Time 16:03:17
Ref.Lvl 111.00 dB*
Marker 86.93 dB*
58.4800 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 900.000 MHz RF.Att 0 dB
Unit [dBμV/m]



TT
1

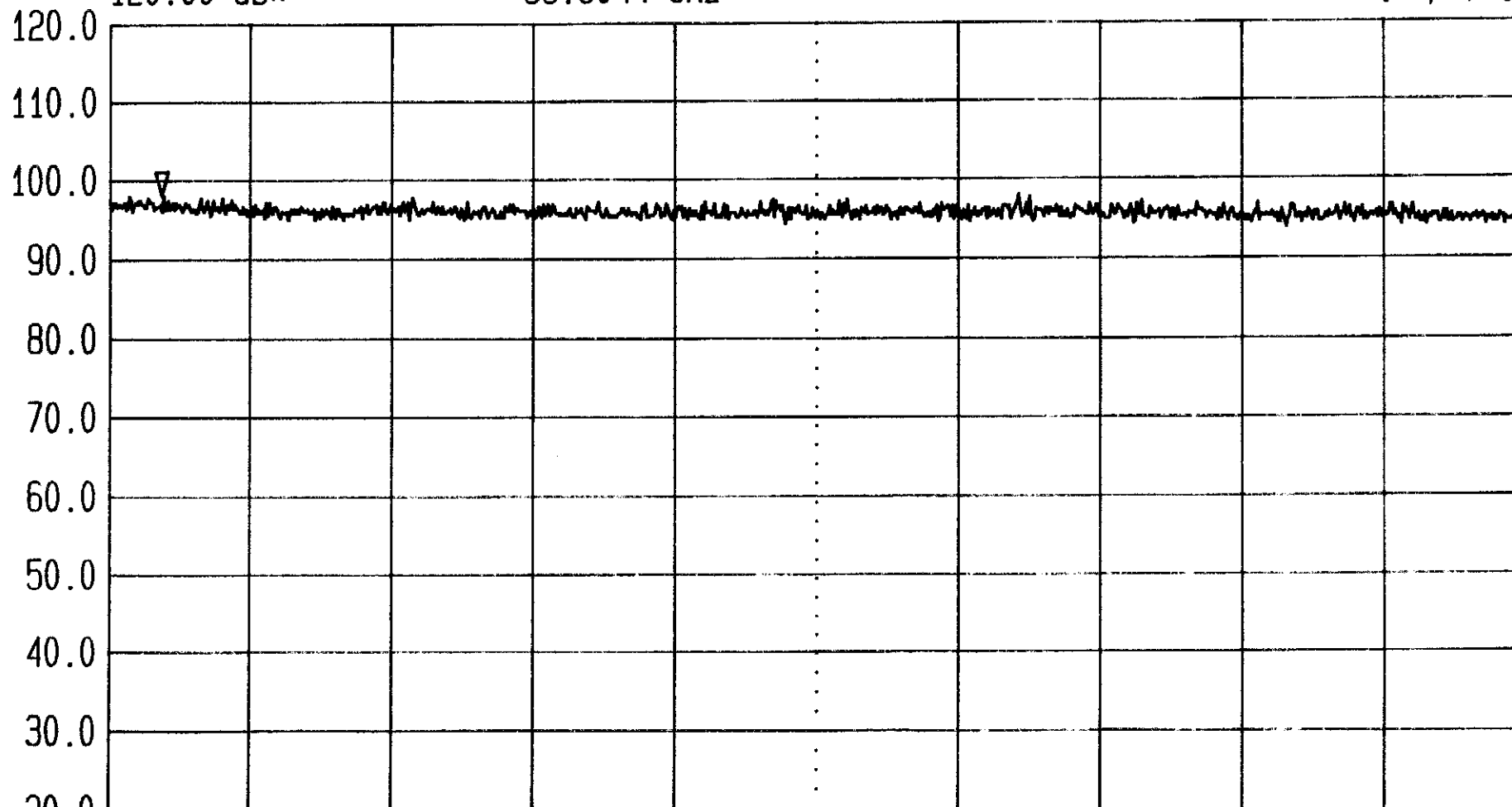
Start	Span	Center	Sweep	Stop
50 GHz	9 GHz	54.5 GHz	40 ms	59 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/025



LVLOFF
Date 29.Apr.'97 Time 16:08:54
Ref.Lvl 120.00 dBx
Marker 98.32 dBx
59.6044 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 1.599 GHz RF.Att 0 dB
Unit [dBμV/m]



TT
1

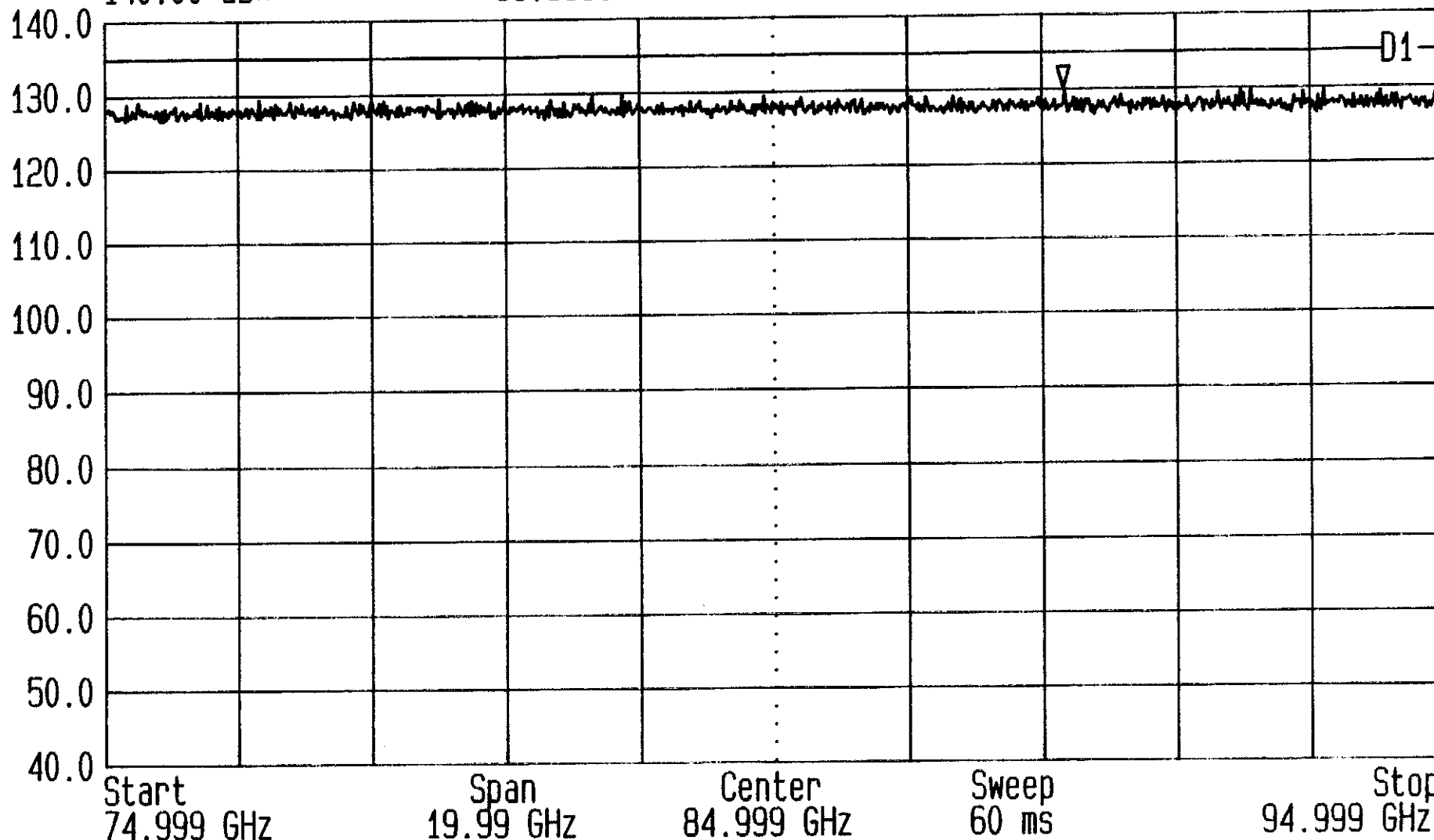
Start	Span	Center	Sweep	Stop
59 GHz	15.99 GHz	66.999 GHz	60 ms	74.999 GHz

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/026



LVLOFF
Date 29.Apr.'97 Time 16:16:13
Ref.Lvl 140.00 dB* Marker 130.05 dB*
89.3333 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 1.999 GHz RF.Att 0 dB
Unit [dB μ V/m]



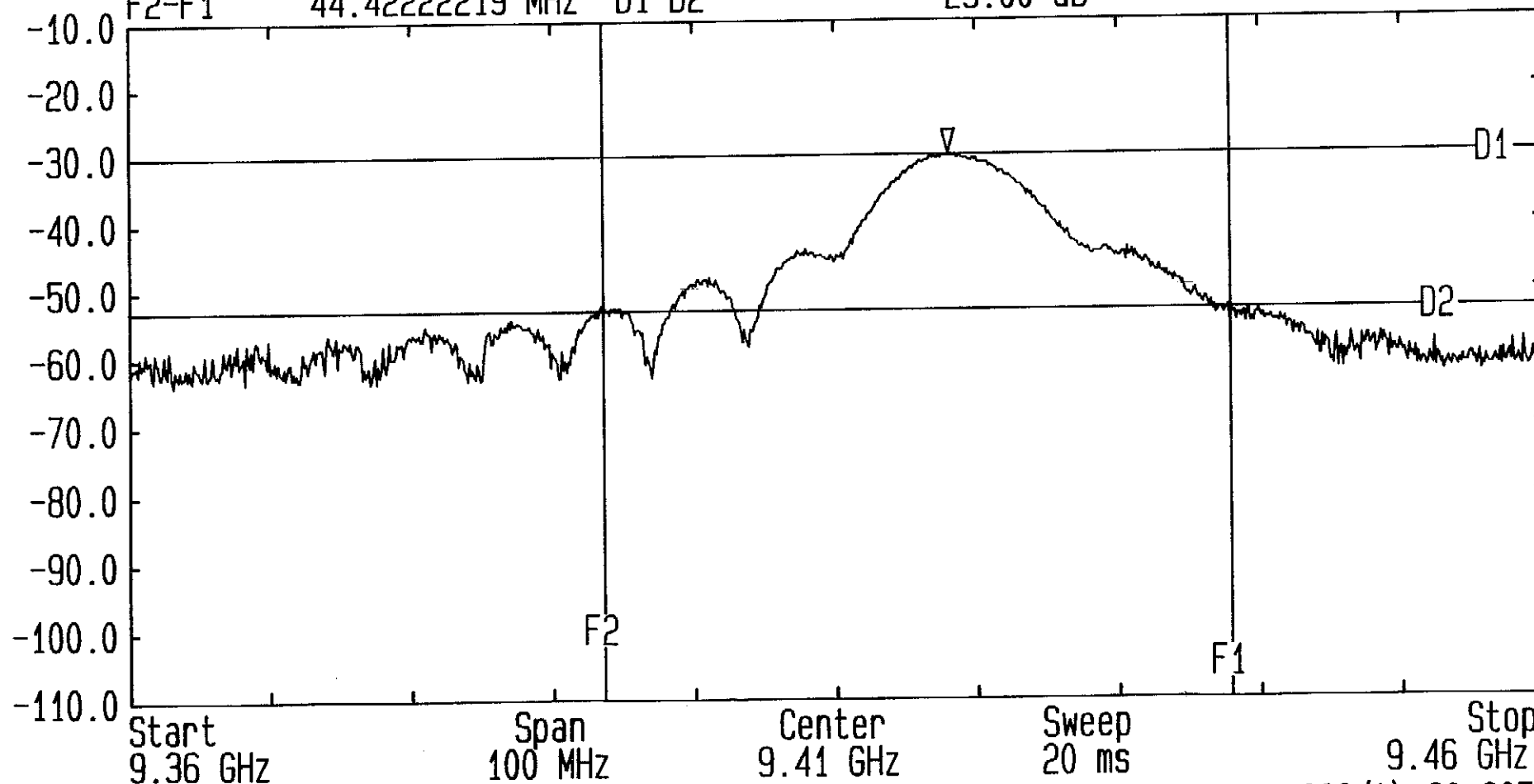
TT
1

Radiated Spurious Emissions tested for Raytheon Marine by RFI FCC Parts 80&2: Oct 95
Limit = 135.17 dBuV/m Supply: 13.8Vdc Temp: 14.0°C 63.0%RH *SV72* GPH34964/U/01/027

Date 01.May.'97 Time 11:14:47
Ref.Lvl -10.00 dBm
Marker -29.88 dBm
9.4181 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 10.000 MHz RF.Att 20 dB
Unit [dBm]

F1 9.43799999998 GHz D1 -29.88 dBm
F2 9.39357777779 GHz D2 -52.88 dBm
F2-F1 44.42222219 MHz D1-D2 -23.00 dB

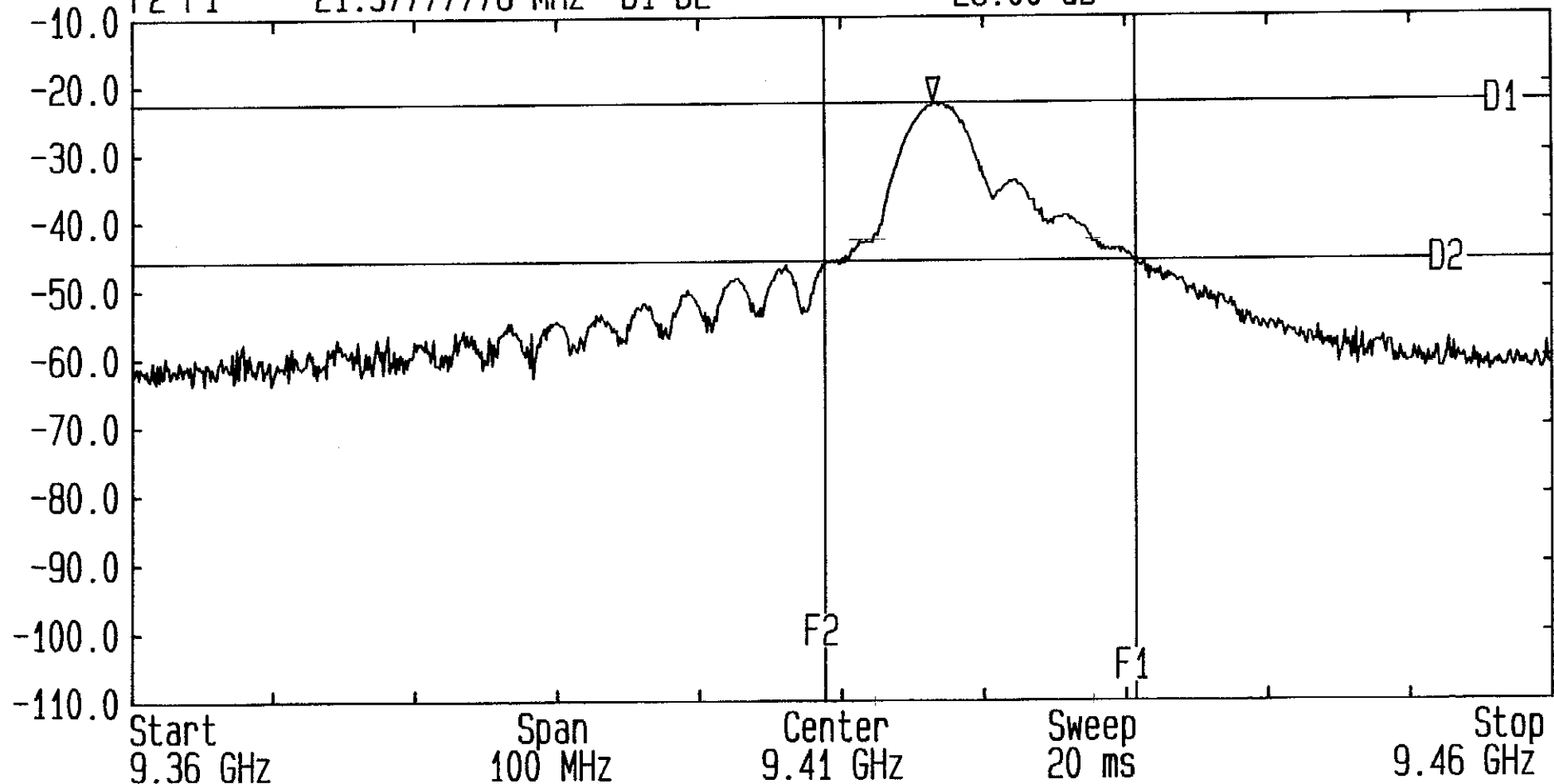


Occupied Bandwidth measured for Raytheon Marine by RFI Ltd FCC CFR47 2.989(i) 80.205
EUT: SV72 Supply: 13.8Vdc Temp: 25'C 33%RH **SHORT PULSE** GPH34964/U/02/001

Date 01.May.'97 Time 11:17:36
Ref.Lvl -10.00 dBm
Marker -22.56 dBm
9.4165 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 10.000 MHz RF.Att 20 dB
Unit [dBm]

F1 9.43077777776 GHz D1 -22.56 dBm
F2 9.40879999998 GHz D2 -45.56 dBm
F2-F1 21.97777778 MHz D1-D2 -23.00 dB

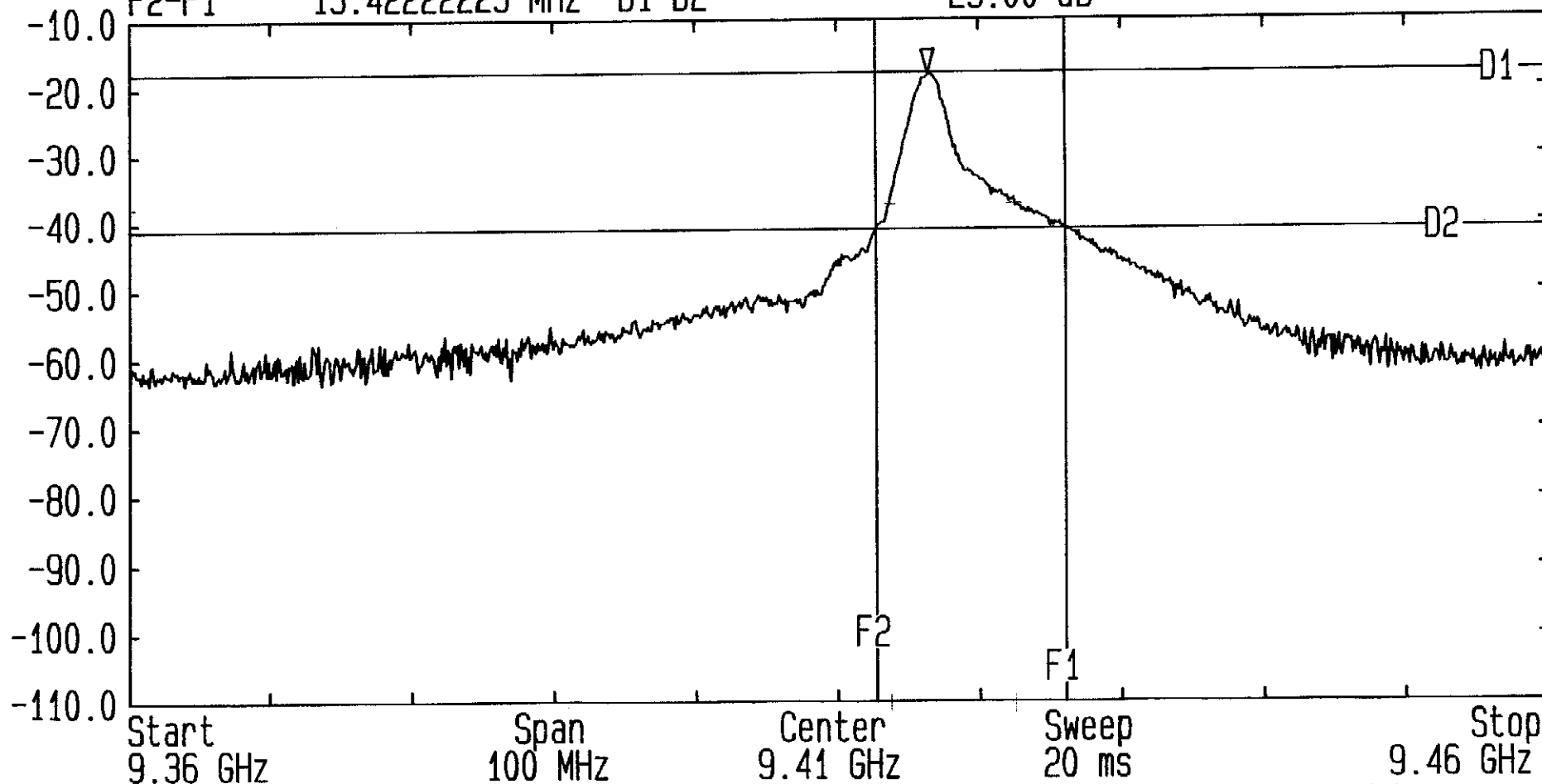


Occupied Bandwidth measured for Raytheon Marine by RFI Ltd FCC CFR47 2.989(i) 80.205
EUT: SV72 Supply: 13.8Vdc Temp: 25'C 33%RH **MEDIUM PULSE** GPH34964/U/02/002

Date 01.May.'97 Time 11:20:35
Ref.Lvl -10.00 dBm
Marker -17.74 dBm
9.4164 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
CF.Stp 10.000 MHz RF.Att 20 dB
Unit [dBm]

F1 9.42611111110 GHz D1 -17.74 dBm
F2 9.41268888887 GHz D2 -40.74 dBm
F2-F1 13.42222223 MHz D1-D2 -23.00 dB



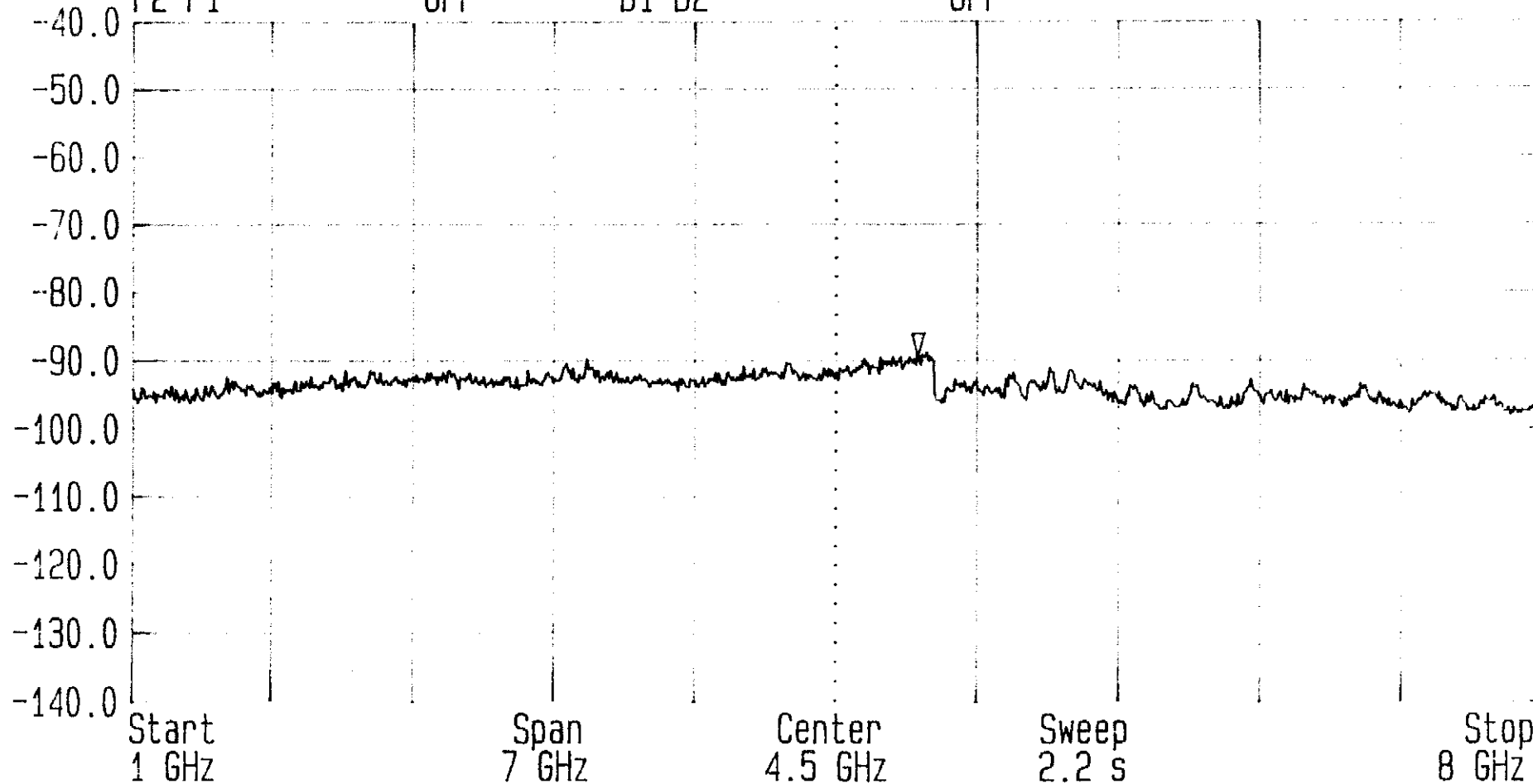
Occupied Bandwidth measured for Raytheon Marine by RFI Ltd FCC CFR47 2.989(i) 80.205
EUT: SV72 Supply: 13.8Vdc Temp: 25°C 33%RH **LONG PULSE** GPH34964/U/02/003



Date 01.Mar.'97 Time 16:35:49
Ref.Lvl -40.00 dBm Marker -89.66 dBm
4.9122 GHz

Res.Bw 100.0 kHz [3dB] Vid.Bw 100 kHz
TG.Lvl off
CF.Stp 700.000 MHz RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF



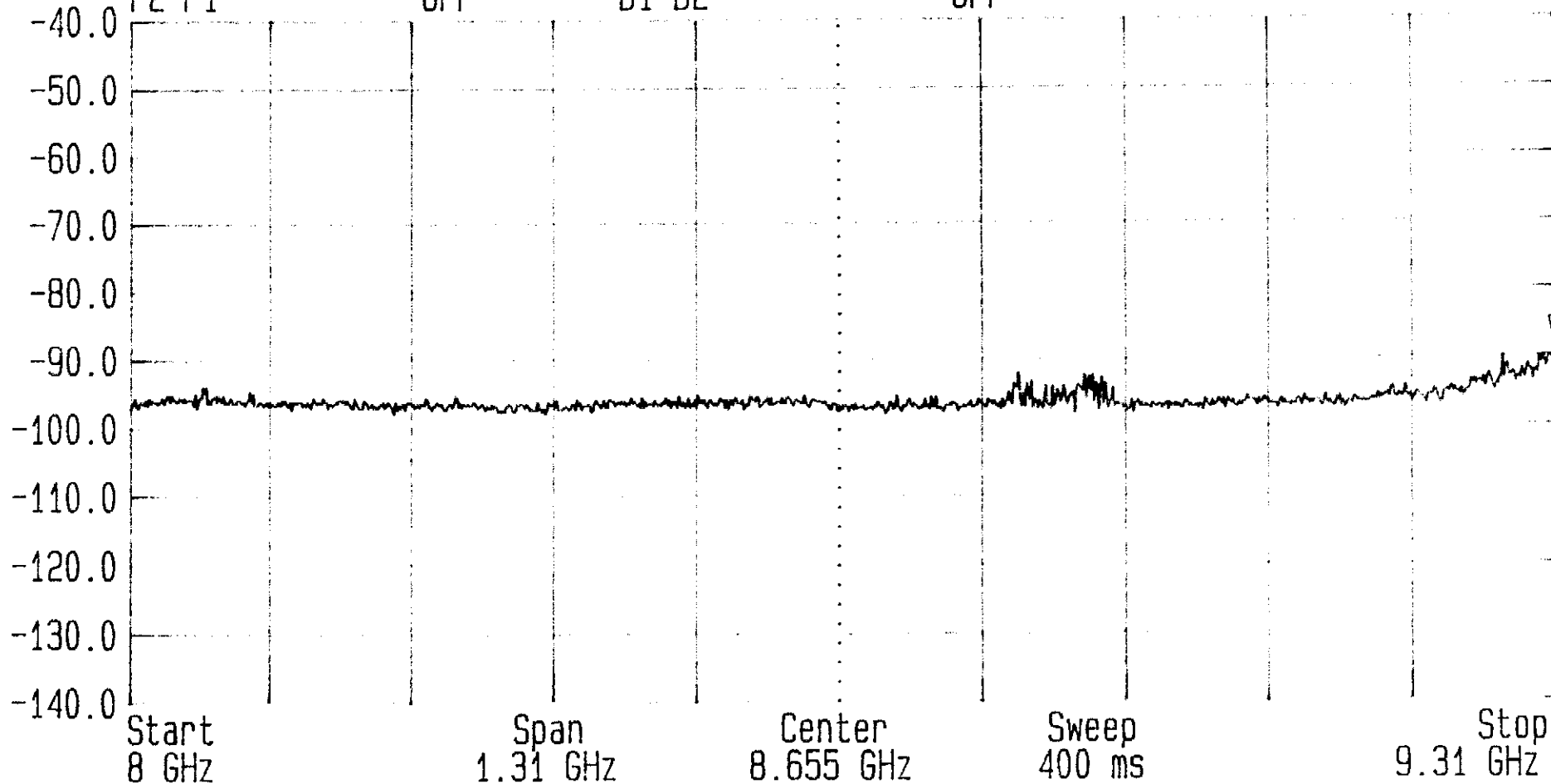
34295/01/002



Date 01.Mar.'97 Time 16:29:57
Ref.Lvl -40.00 dBm
Marker -87.81 dBm
9.3100 GHz

Res.Bw 100.0 kHz [3dB]
TG.Lvl off
CF.Stp 131.000 MHz
Vid.Bw 100 kHz
RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF

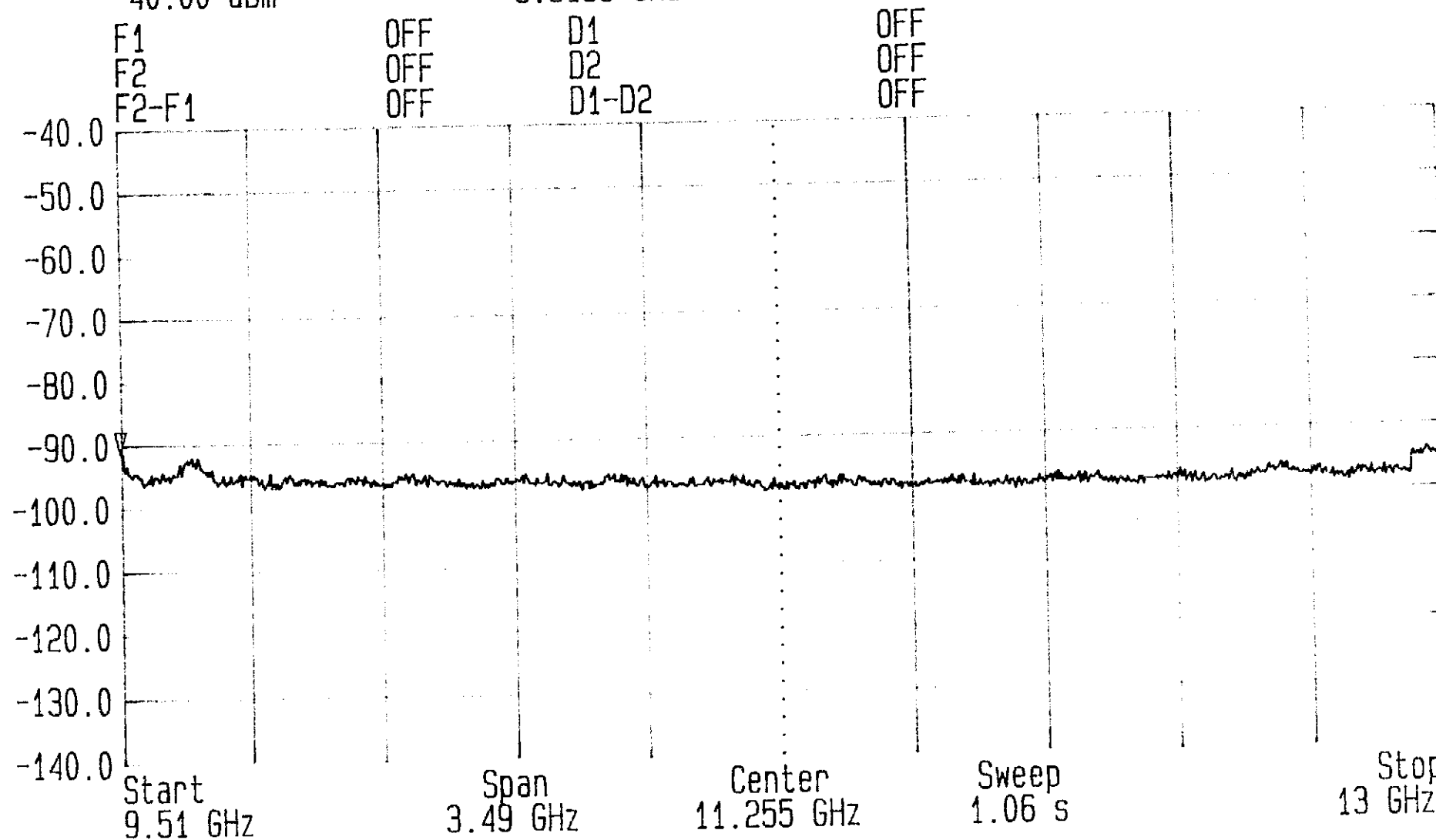


34295/01/003



Date 01.Mar.'97 Time 16:24:13
Ref.Lvl -40.00 dBm
Marker -91.14 dBm
9.5138 GHz

Res.Bw 100.0 kHz [3dB]
TG.Lvl off
CF.Stp 349.000 MHz
Vid.Bw 100 kHz
RF.Att 0 dB
Unit [dBm]



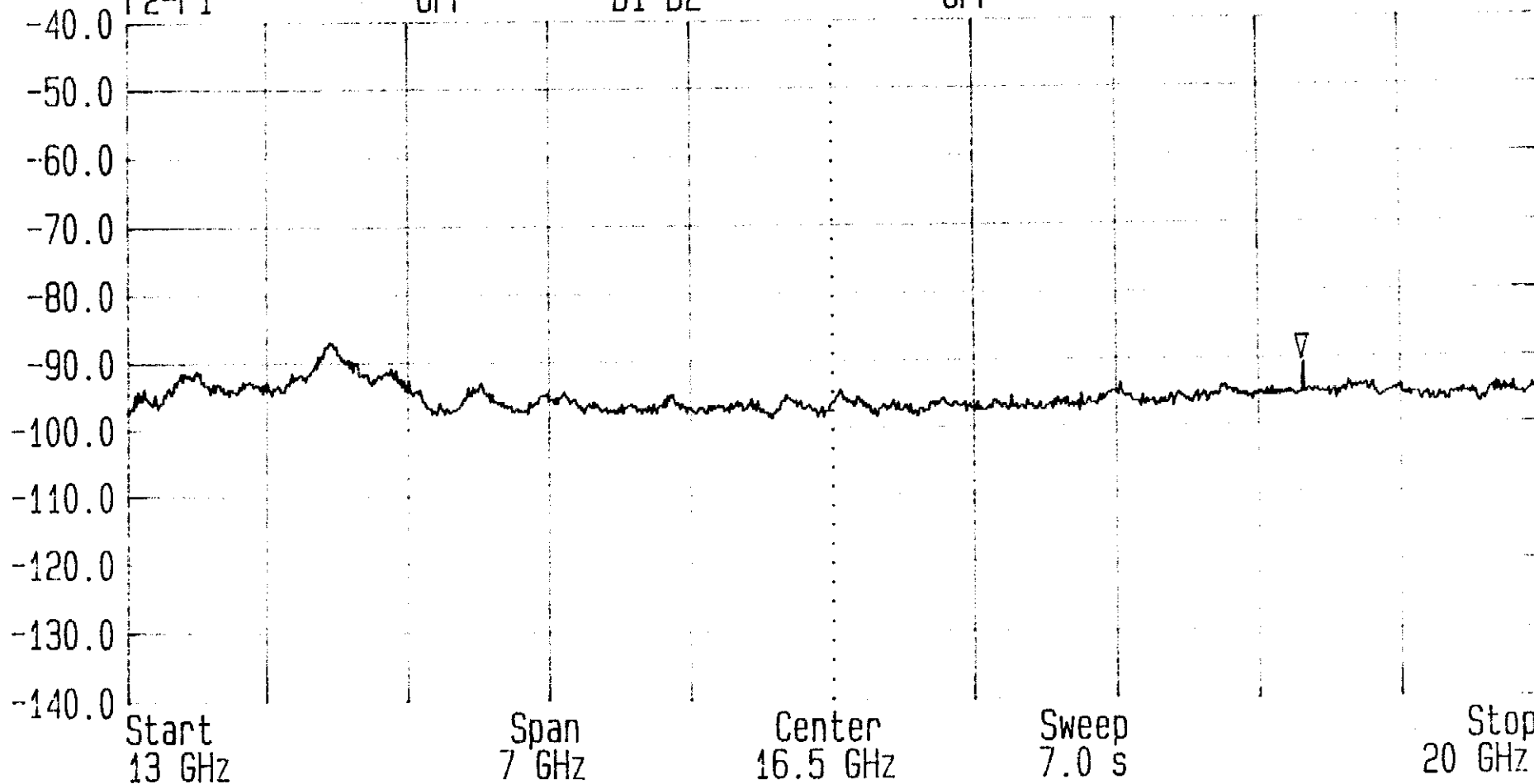
34295/01/004



Date 01.Mar.'97 Time 16:17:19
Ref.Lvl -40.00 dBm
Marker -90.25 dBm
18.8255 GHz

Res.Bw 100.0 kHz [3dB]
T6.Lvl off
CF.Stp 700.000 MHz
Vid.Bw 30 kHz
RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF

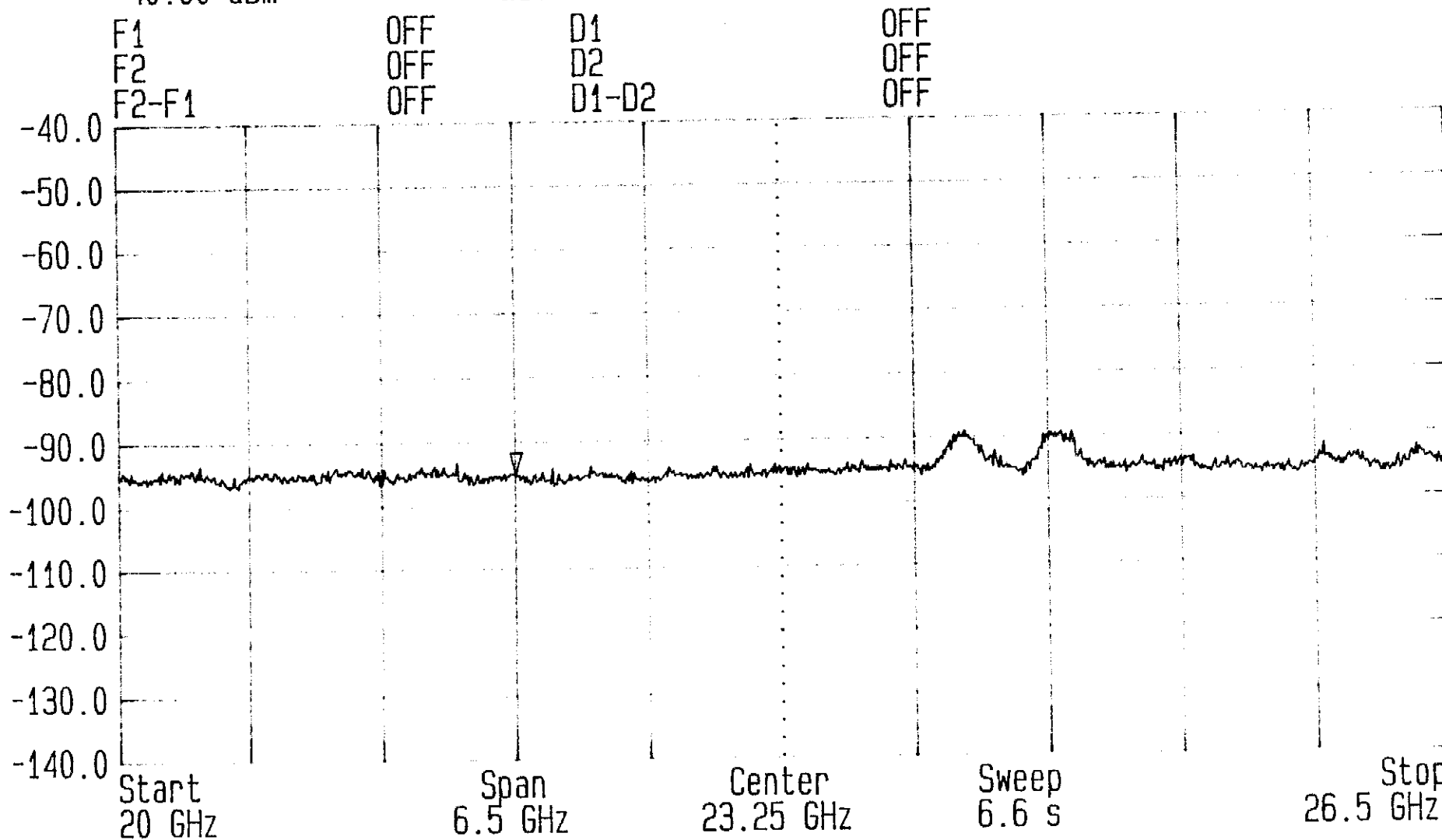


34295/01/005



Date 01.Mar.'97 Time 16:09:51
Ref.Lvl -40.00 dBm Marker -94.97 dBm
21.9644 GHz

Res.Bw 100.0 kHz [3dB] Vid.Bw 30 kHz
TG.Lvl off
CF.Stp 650.000 MHz RF.Att 0 dB
Unit [dBm]



34295/01/006

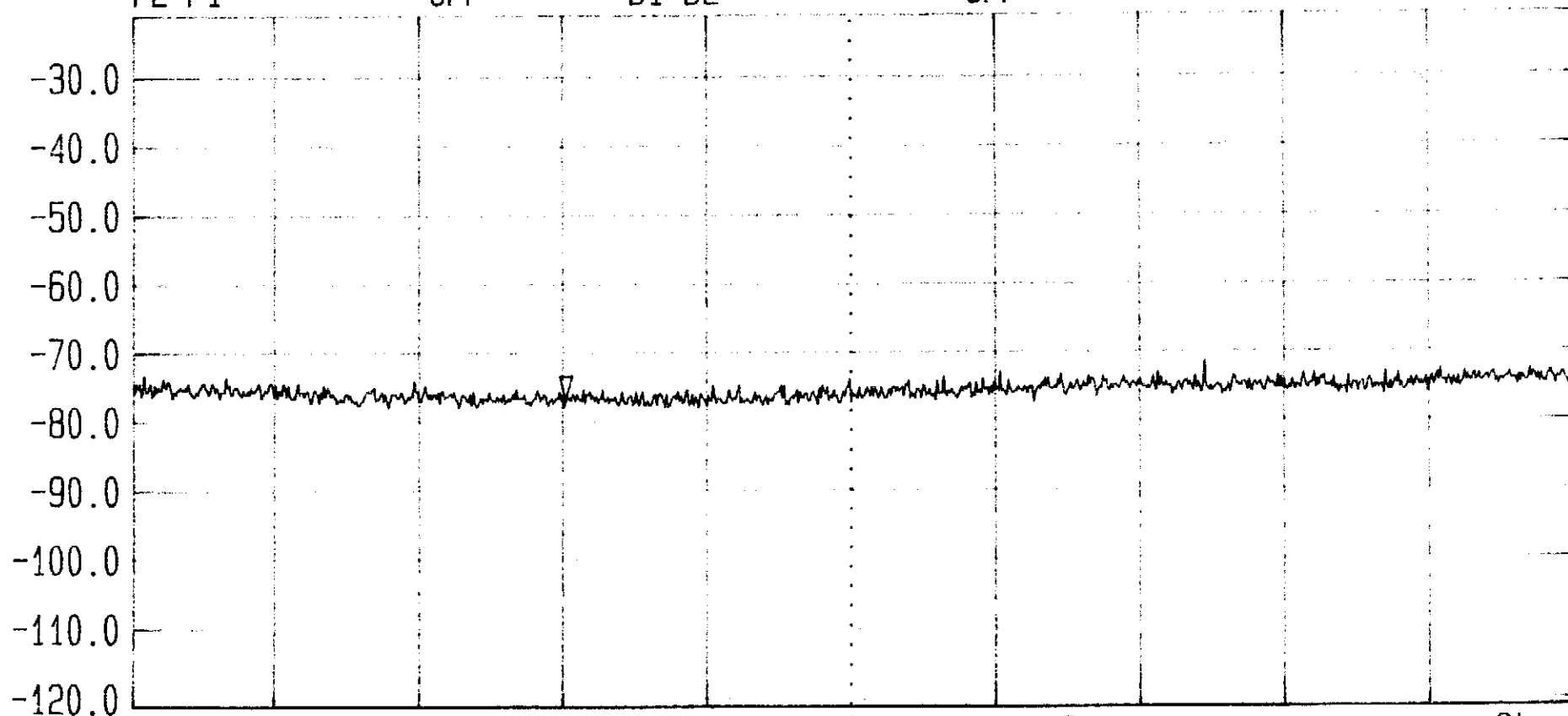


LVLOFF

Date 01.Mar.'97 Time 16:01:41
Ref.Lvl -21.00 dBm
Marker -76.78 dBm
30.5800 GHz

Res.Bw 100.0 kHz [3dB]
TG.Lvl off
CF.Stp 1.350 GHz
Vid.Bw 100 kHz
RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF



Start
26.5 GHz

Span
13.5 GHz

Center
33.25 GHz

Sweep
4.2 s

Stop
40 GHz

3429901/007

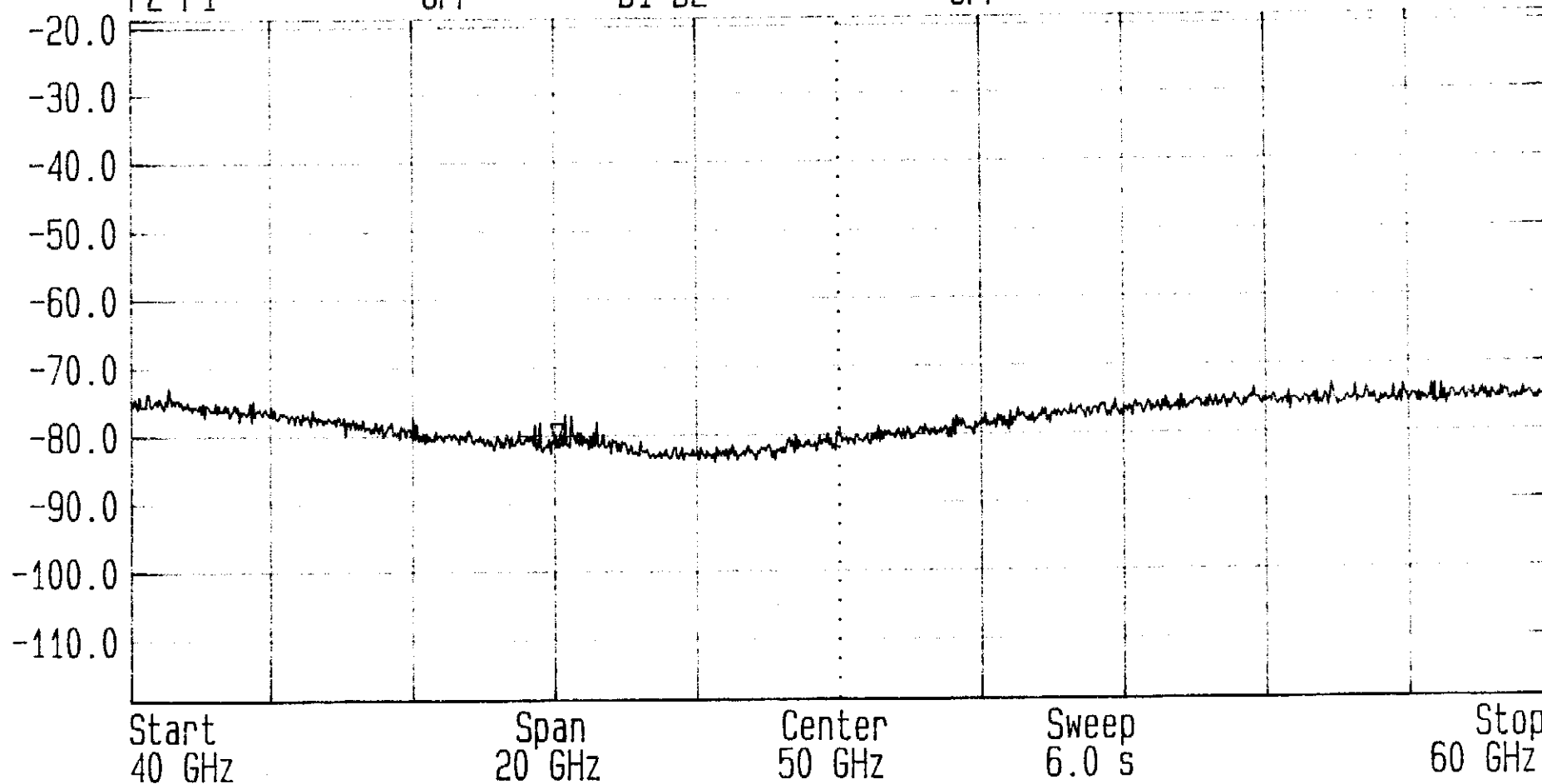


LVLOFF

Date 01.Mar.'97 Time 15:52:01
Ref.Lvl -19.00 dBm Marker -81.62 dBm
46.0444 GHz

Res.Bw 100.0 kHz [3dB] Vid.Bw 100 kHz
TG.Lvl off
CF.Stp 2.000 GHz RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF



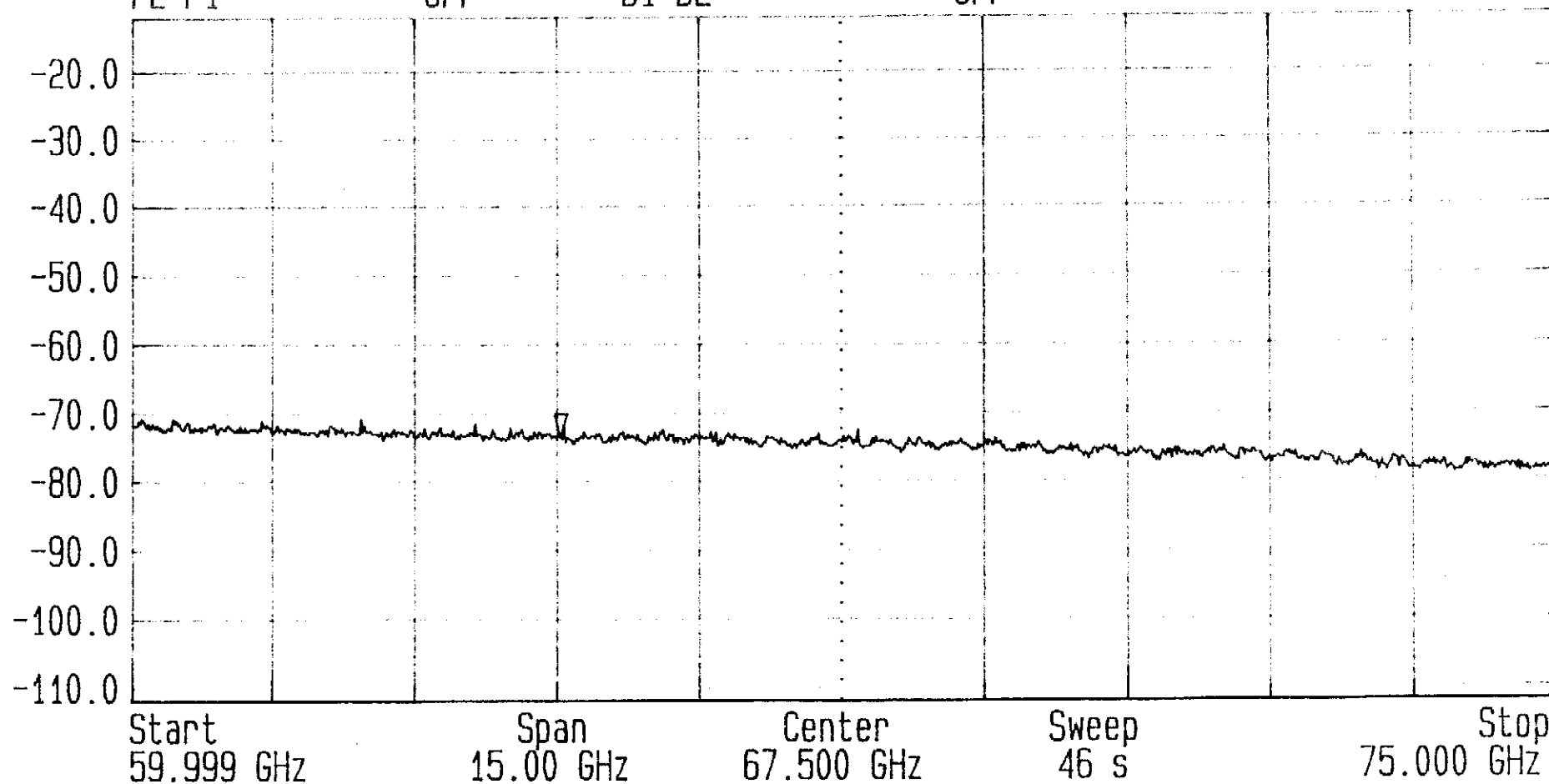
34295/01/008



LVLOFF
Date 01.Mar.'97 Time 15:44:36
Ref.Lvl -12.00 dBm
Marker -73.37 dBm
64.5503 GHz

Res.Bw 100.0 kHz [3dB]
TG.Lvl off
CF.Stp 1.500 GHz
Vid.Bw 10 kHz
RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF



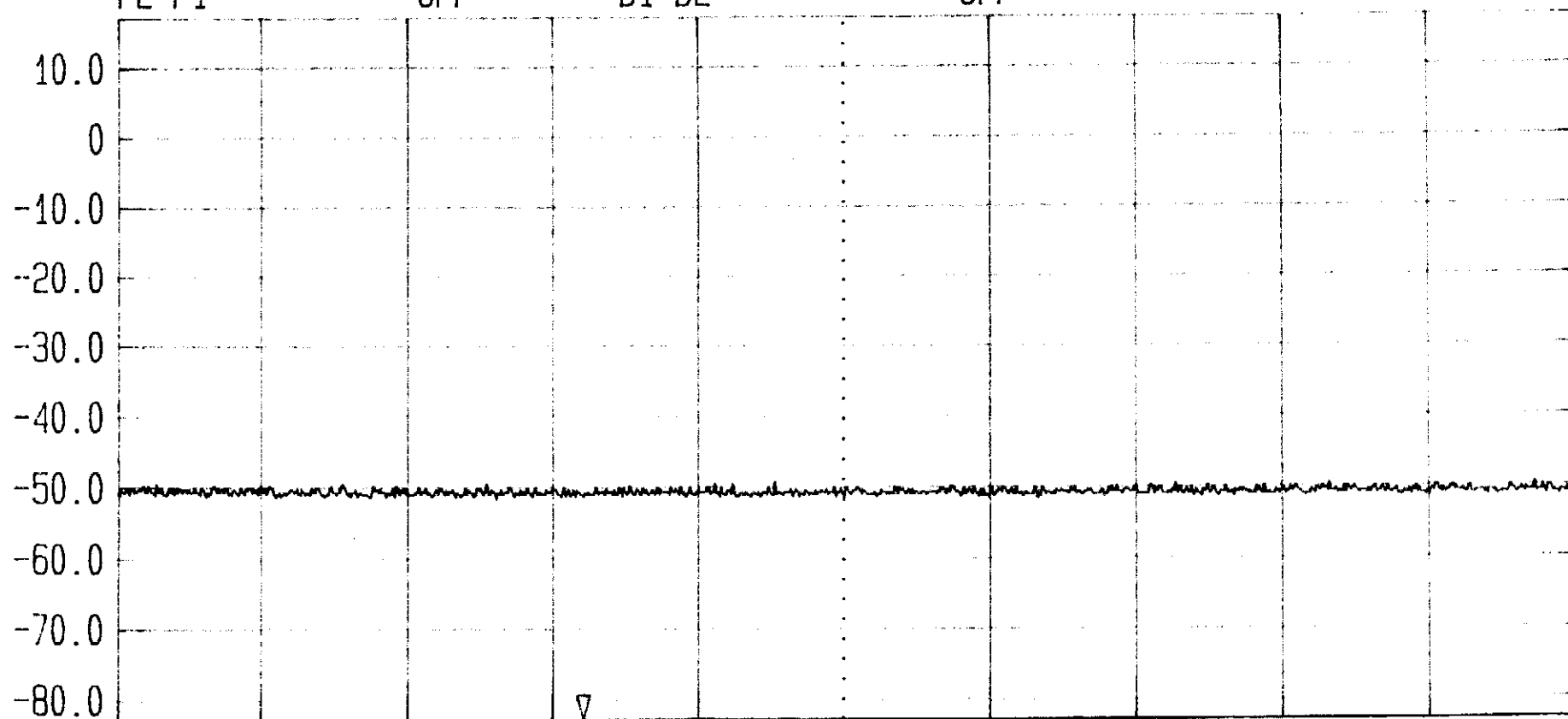
34295/01/009



LVLOFF
Date 01.Mar.'97 Time 15:36:19
Ref.Lvl 17.00 dBm
Marker -83.00 dBm
83.0555 GHz

Res.Bw 100.0 kHz [3dB]
TG.Lvl off
CF.Stp 2.499 GHz
Vid.Bw 10 kHz
RF.Att 0 dB
Unit [dBm]

F1 OFF D1 OFF
F2 OFF D2 OFF
F2-F1 OFF D1-D2 OFF

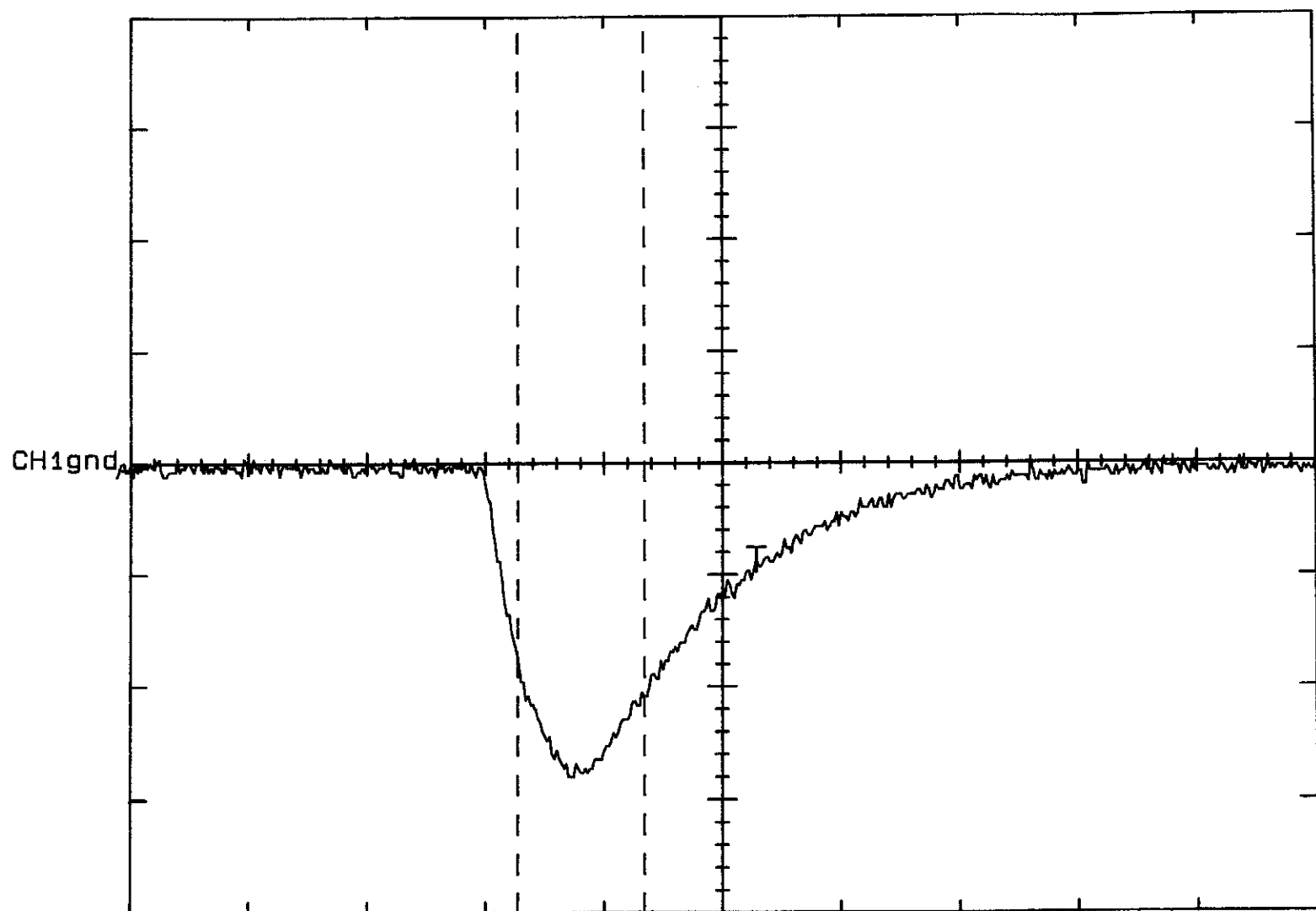


Start 74.999 GHz Span 25.00 GHz Center 87.499 GHz Sweep 76 s Stop 99.999 GHz

34295/01/010

CH1 20mV

A 100ns -21.9mV VERT
4.38mV? VERT
107.00ns



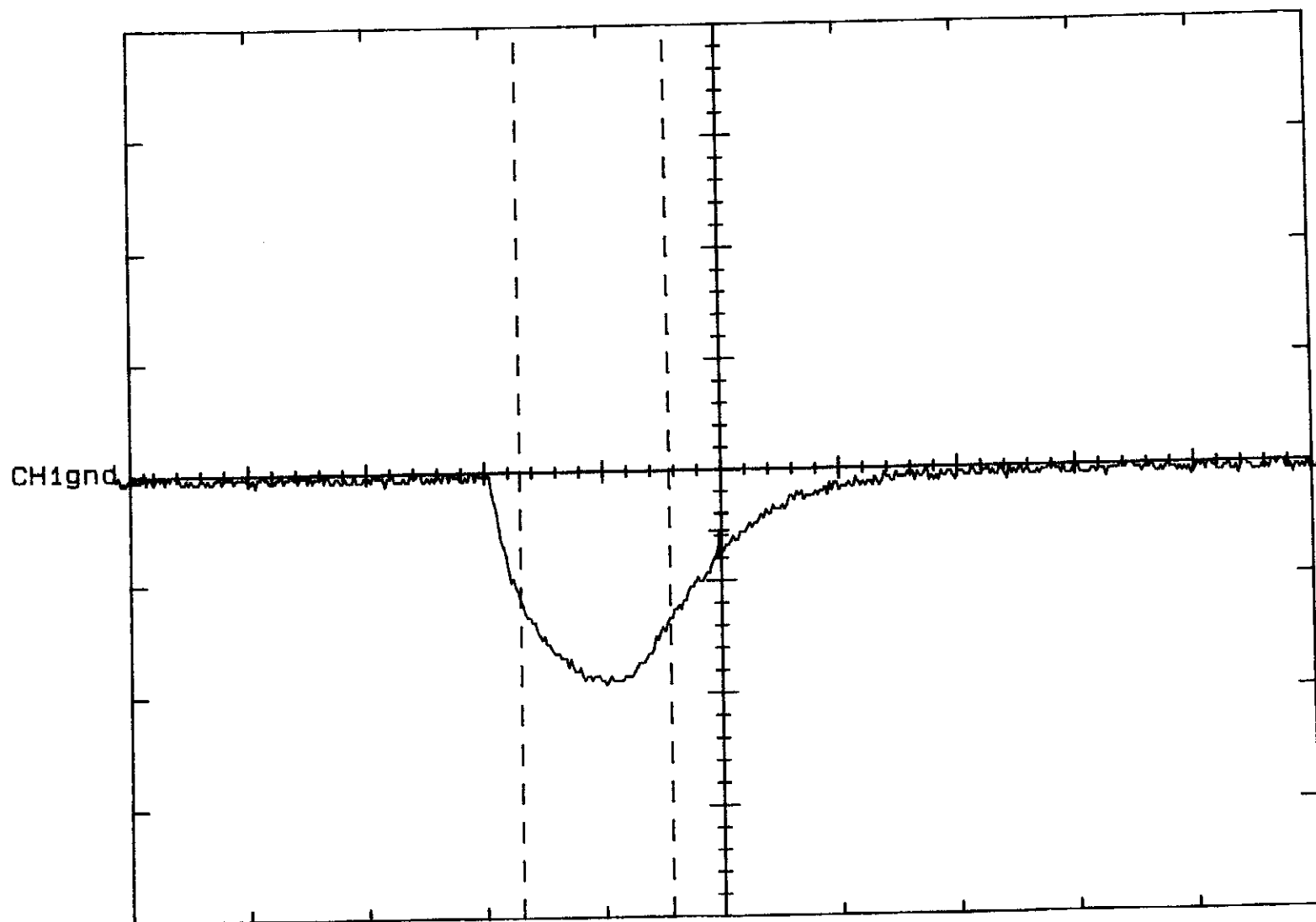
34295/01/011

CH1 50mV

A 200ns -41.0mV VERT

4.30mV? VERT

252.00ns



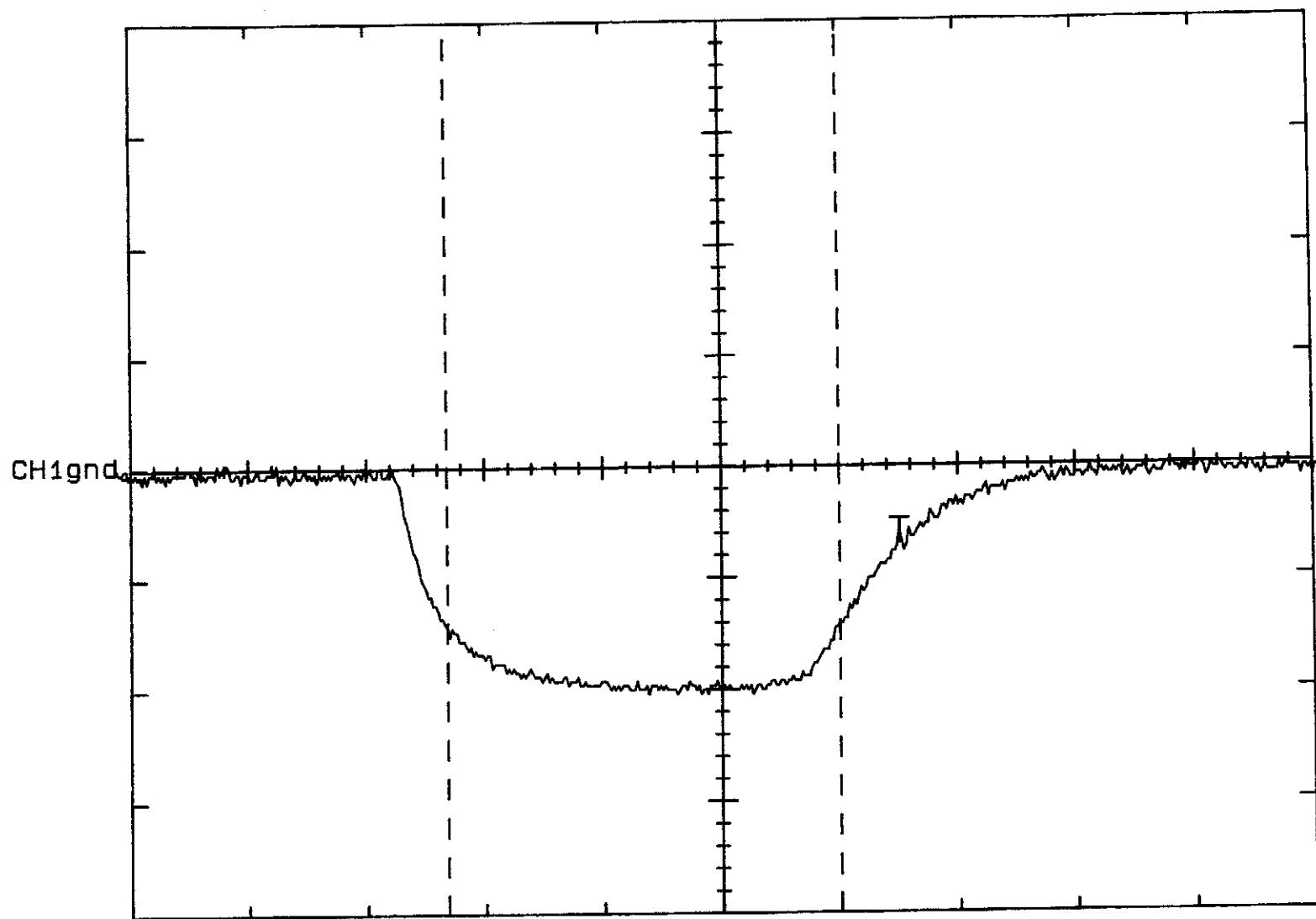
34295/01/012

CH1 50mV

A 200ns -41.0mV VERT

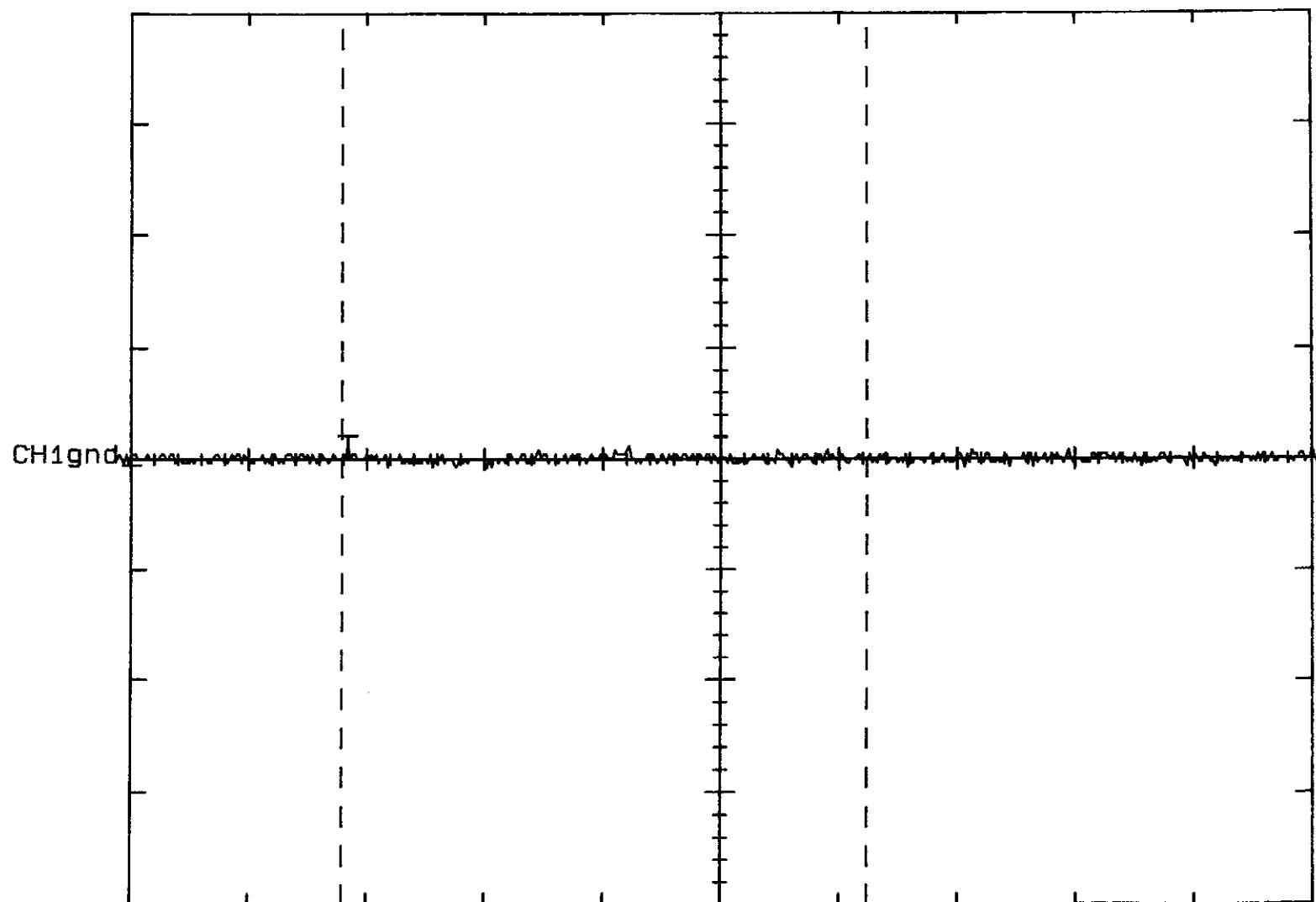
4.30mV? VERT

664.00ns



34295/01/013

CH1 5mV A 100 μ s 234 μ V VERT
4.34mV? VERT
2.2523kHz



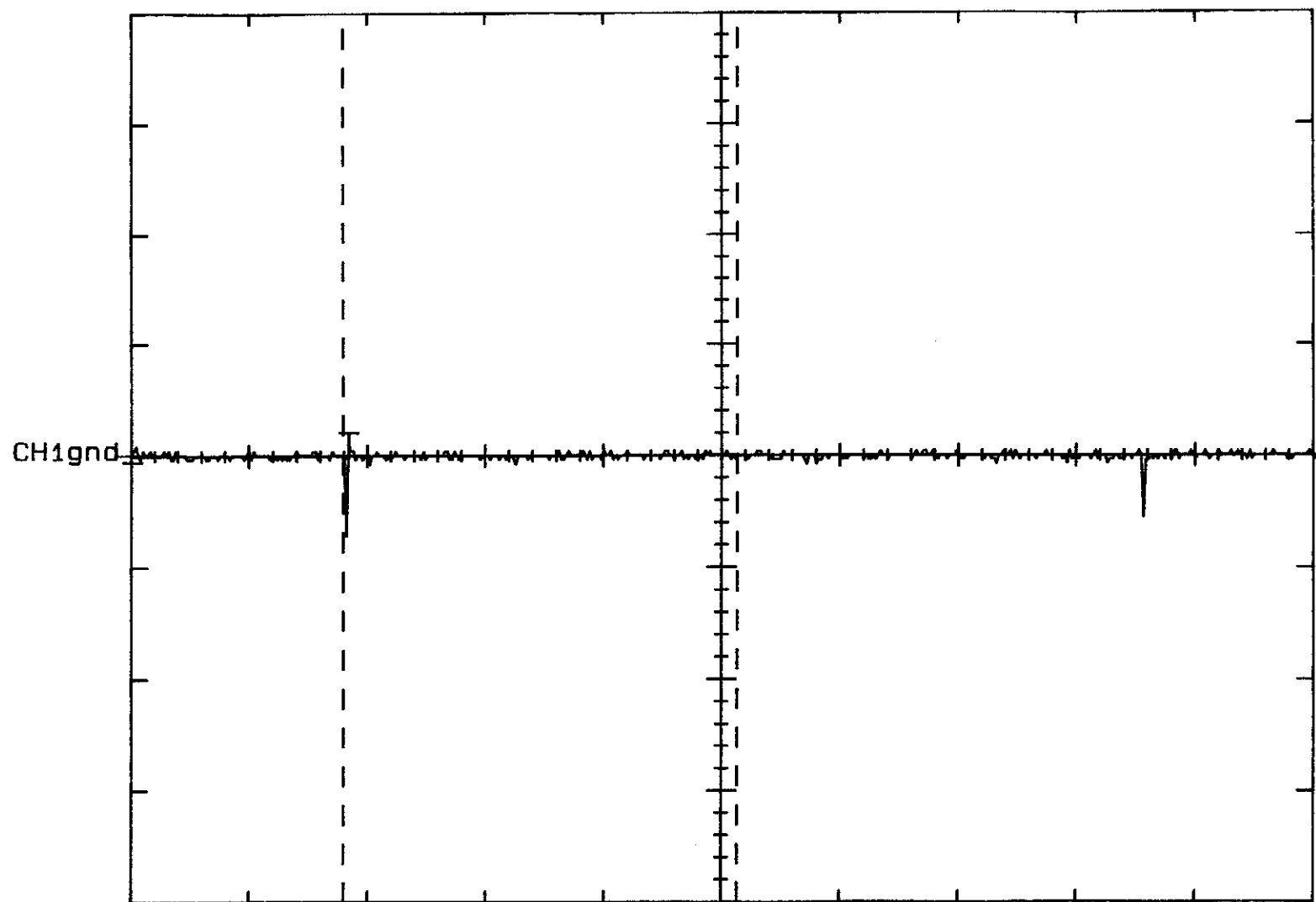
34295/01/014

CH1 20mV

A 200 μ s -21.0mV VERT

4.38mV? VERT

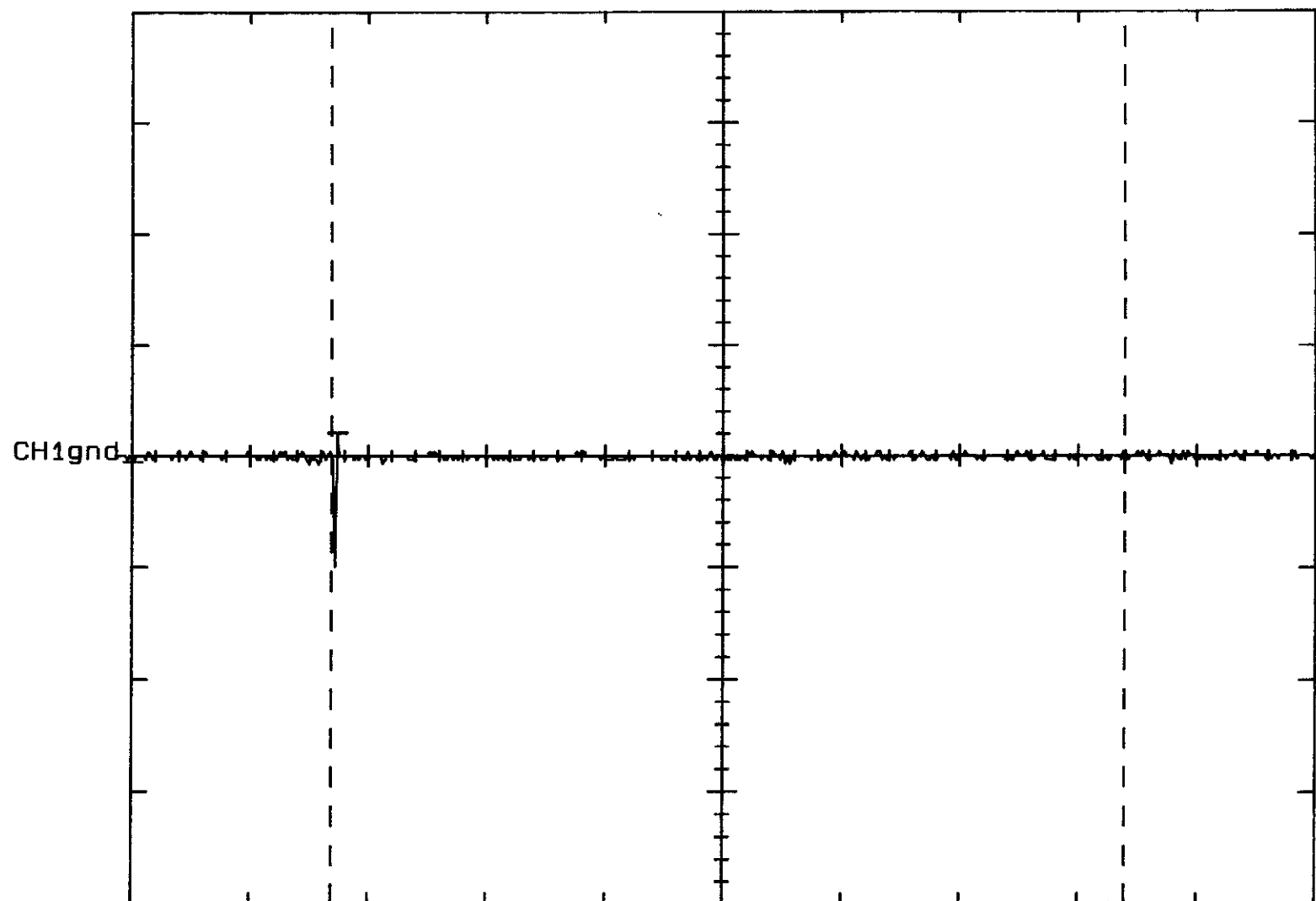
1.4970kHz



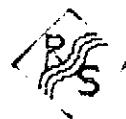
34295/01/015

CH1 50mV

A 200 μ s -22.1mV VERT
4.30mV? VERT
746.27 Hz



34295/01/016



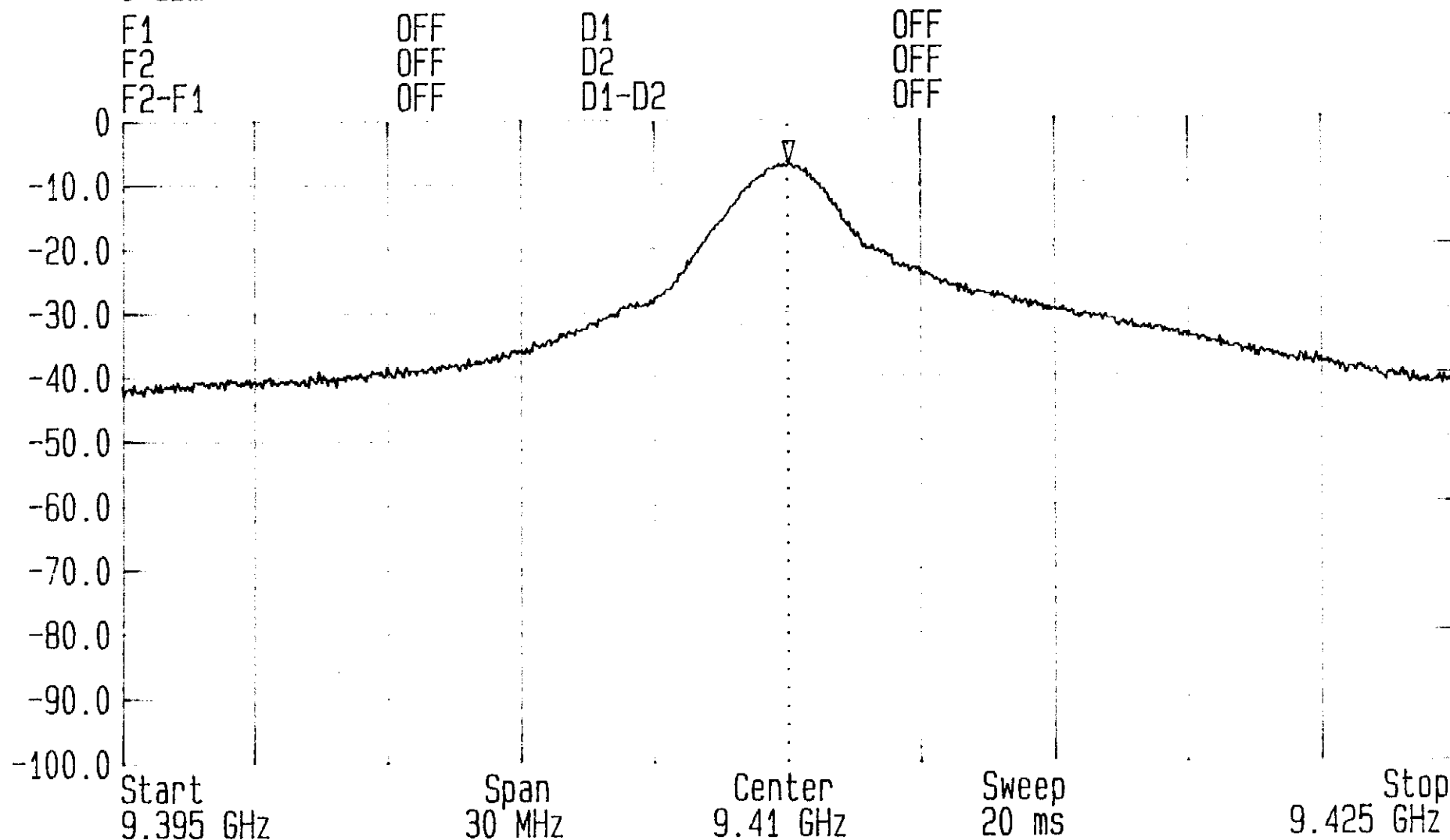
Date 01.Mar.'97 Time 17:04:42
Ref.Lvl 0 dBm
Marker -6.88 dBm
9.41006 GHz

Res.Bw
TG.Lvl
CF.Stp

1.0 MHz [3dB]
off
3.000 MHz

Vid.Bw
RF.Att
Unit

1 MHz
30 dB
[dBm]



34295/01/017



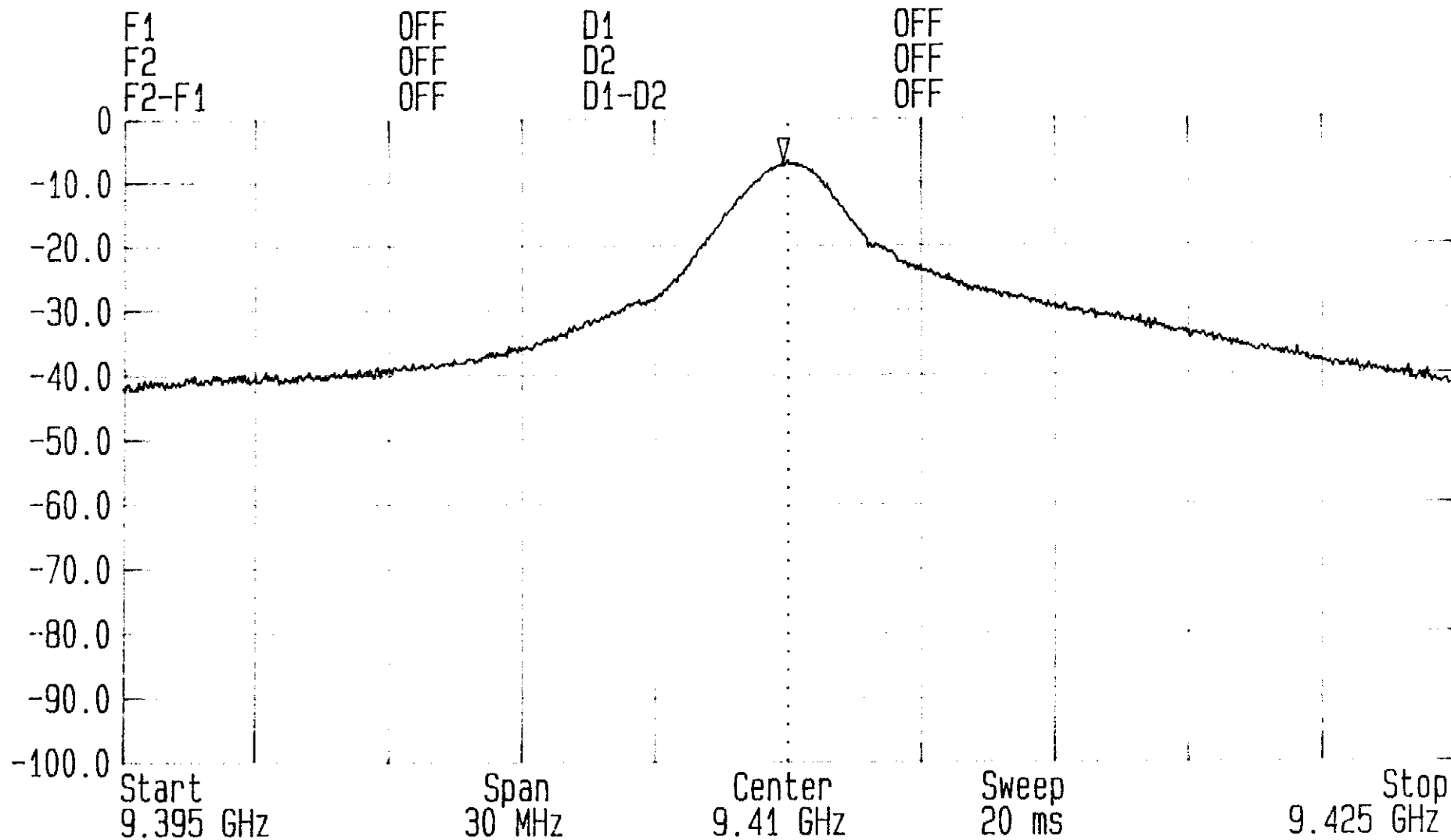
Date 01.Mar.'97 Time 17:00:15
Ref.Lvl 0 dBm
Marker -6.72 dBm
9.40990 GHz

Res.Bw
TG.Lvl
CF.Stp

1.0 MHz [3dB]
off
3.000 MHz

Vid.Bw
RF.Att
Unit

1 MHz
30 dB
[dBm]



34295/01/018



Date 01.Mar.'97 Time 16:50:55
Ref.Lvl 0 dBm Marker -6.75 dBm
9.41033 GHz

Res.Bw
TG.Lvl
CF.Stp

1.0 MHz [3dB]
off
3.000 MHz

Vid.Bw
RF.Att
Unit

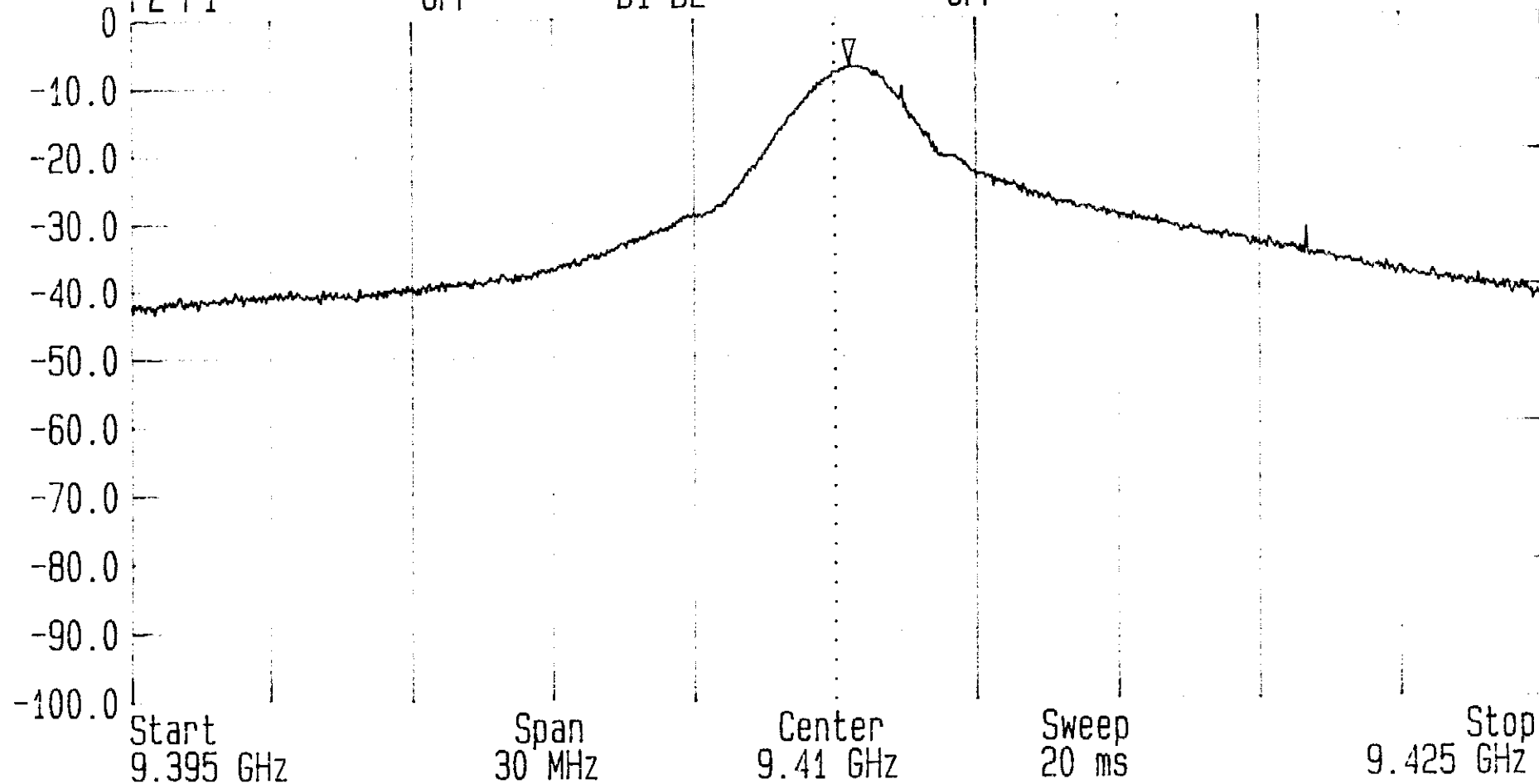
1 MHz
30 dB
[dBm]

F1
F2
F2-F1

OFF
OFF
OFF

D1
D2
D1-D2

OFF
OFF
OFF



34295 / 01/014



Date 01.Mar.'97 Time 16:55:31
Ref.Lvl 0 dBm Marker -6.72 dBm
9.41016 GHz

Res.Bw
TG.Lvl
CF.Stp

1.0 MHz [3dB]
off
3.000 MHz

Vid.Bw
RF.Att
Unit

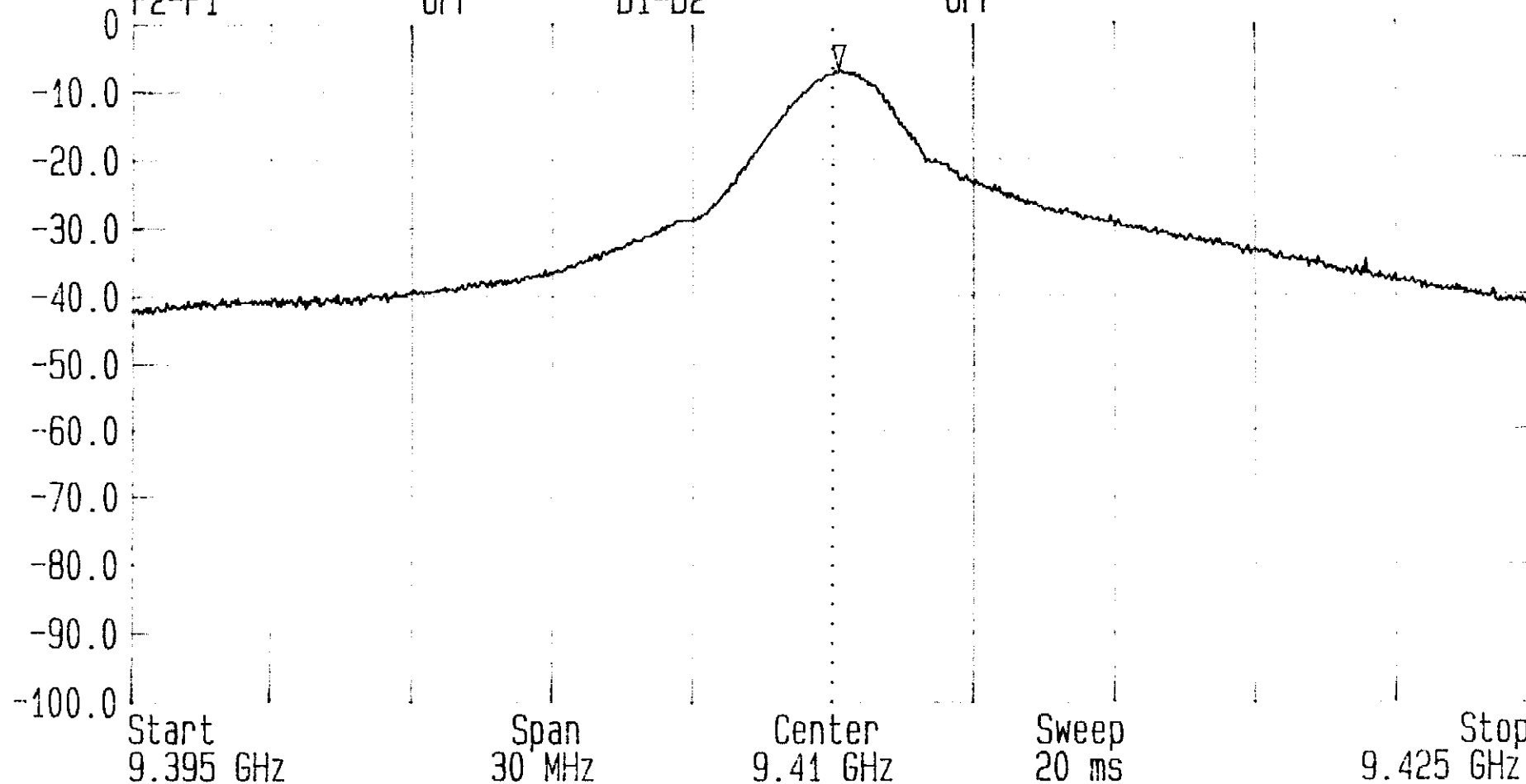
1 MHz
30 dB
[dBm]

F1
F2
F2-F1

OFF
OFF
OFF

D1
D2
D1-D2

OFF
OFF
OFF



34295/01/020