

EMC Department**Test Of: Red-M (Communications) Ltd.
3000AS Wireless Internet Server****with Access Server External Aerial (3000-501)****To: F.C.C. Part 15: 1998 Subpart C (Intentional Radiators). Section 15.247**

Appendix 4. Graphical Test Results (Part 3a)

This appendix contains the following graphs:

Graph Reference Number	Title
GPH\41715ETF04\041	Hopping All Channels Internal Antenna, (4 GHz to 6 GHz) Section 15.209
GPH\41715ETF04\042	Hopping All Channels Internal Antenna, (6 GHz to 8 GHz) Section 15.209
GPH\41715ETF04\043	Hopping All Channels Internal Antenna, (8 GHz to 12 GHz) Section 15.209
GPH\41715ETF04\044	Hopping All Channels Internal Antenna, (12 GHz to 18 GHz) Section 15.209
GPH\41715ETF04\045	Hopping All Channels Internal Antenna, (18 GHz to 26 GHz) Section 15.209
GPH\41715ETF04\046	Hopping All Channels Internal Antenna, (30 MHz to 1 GHz) Section 15.209
GPH\41715ETF04\047	Hopping All Channels Internal Antenna, (1 GHz to 2 GHz) Section 15.209
GPH\41715ETF04\049	Hopping All Channels Internal Antenna, (2.39 GHz to 2.5 GHz) Section 15.209
GPH\41715ETF04\050	Hopping All Channels Internal Antenna, (2.5 GHz to 4 GHz) Section 15.209

RADIO FREQUENCY INVESTIGATION LTD.

TEST REPORT

Graphical Test Results

S.No. RFI/EMCB1/RP41715C

Issue Date: 28 February 2001

EMC Department

Test Of: Red-M (Communications) Ltd.

3000AS Wireless Internet Server

with Access Server External Aerial (3000-501)

To: F.C.C. Part 15: 1998 Subpart C (Intentional Radiators). Section 15.247

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Date 19.Dec.'00 Time 21:41:27

Ref.Lvl Marker

62.80 dB*

60.42 dB*

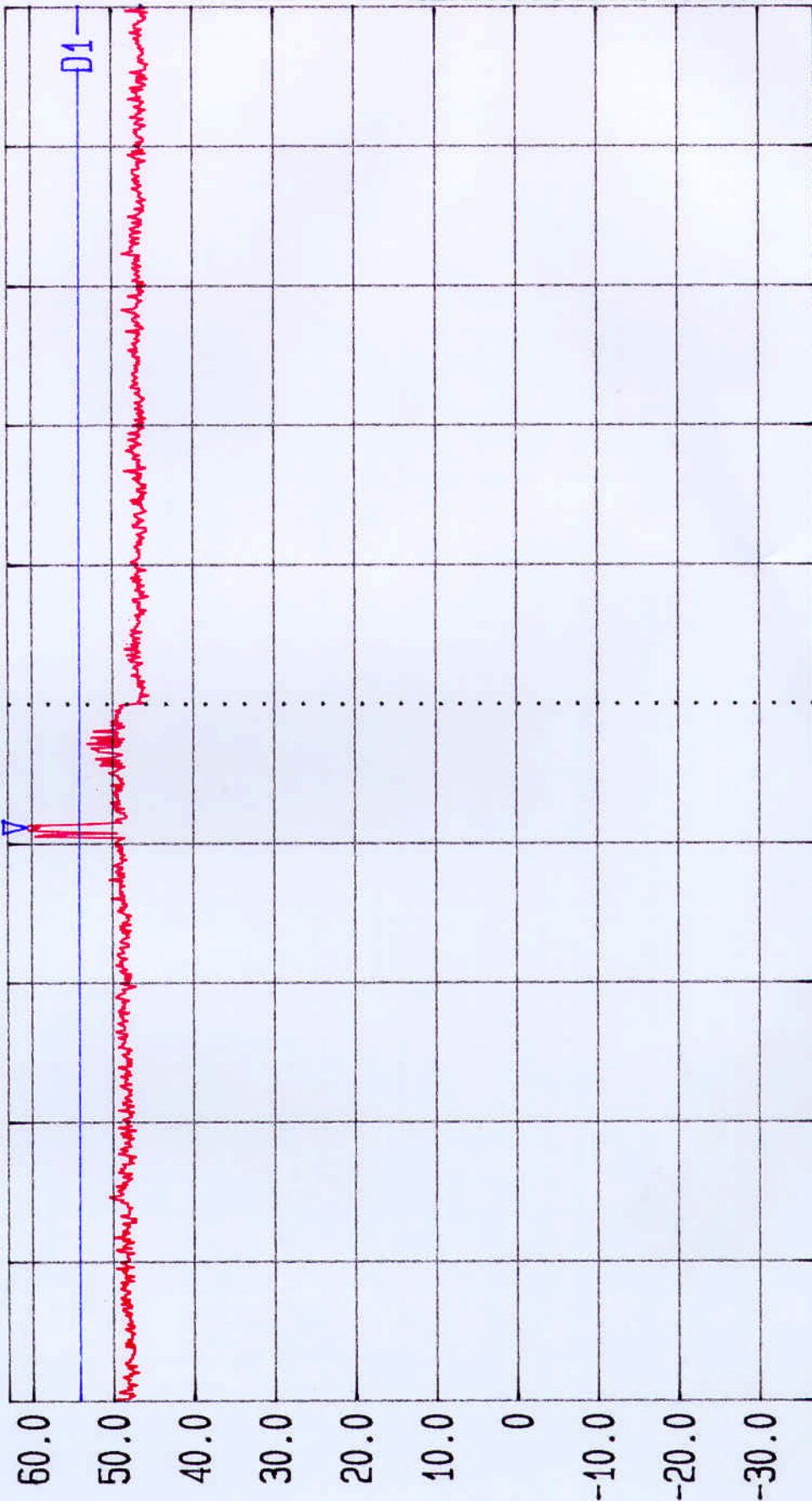
4.8244 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
200.000 MHz

Vid.Bw
RF.Att
Unit

3 MHz
0 dB
[dBμV/m]



TT
4
PA
10
FI

Start
4 GHz

Span
2 GHz

Center
5 GHz

Sweep
20 ms

Stop
6 GHz

Tested by RFI for RED M.

Spec: FCC Part 15.209

EUT: 3000AS

Opcond: TX Hopping All Channels Internal Antenna

GPH: 41715/04/04/041

ENG: PG



Date 19.Dec.'00 Time 21:49:31

Ref.Lvl Marker

62.80 dB*

51.56 dB*

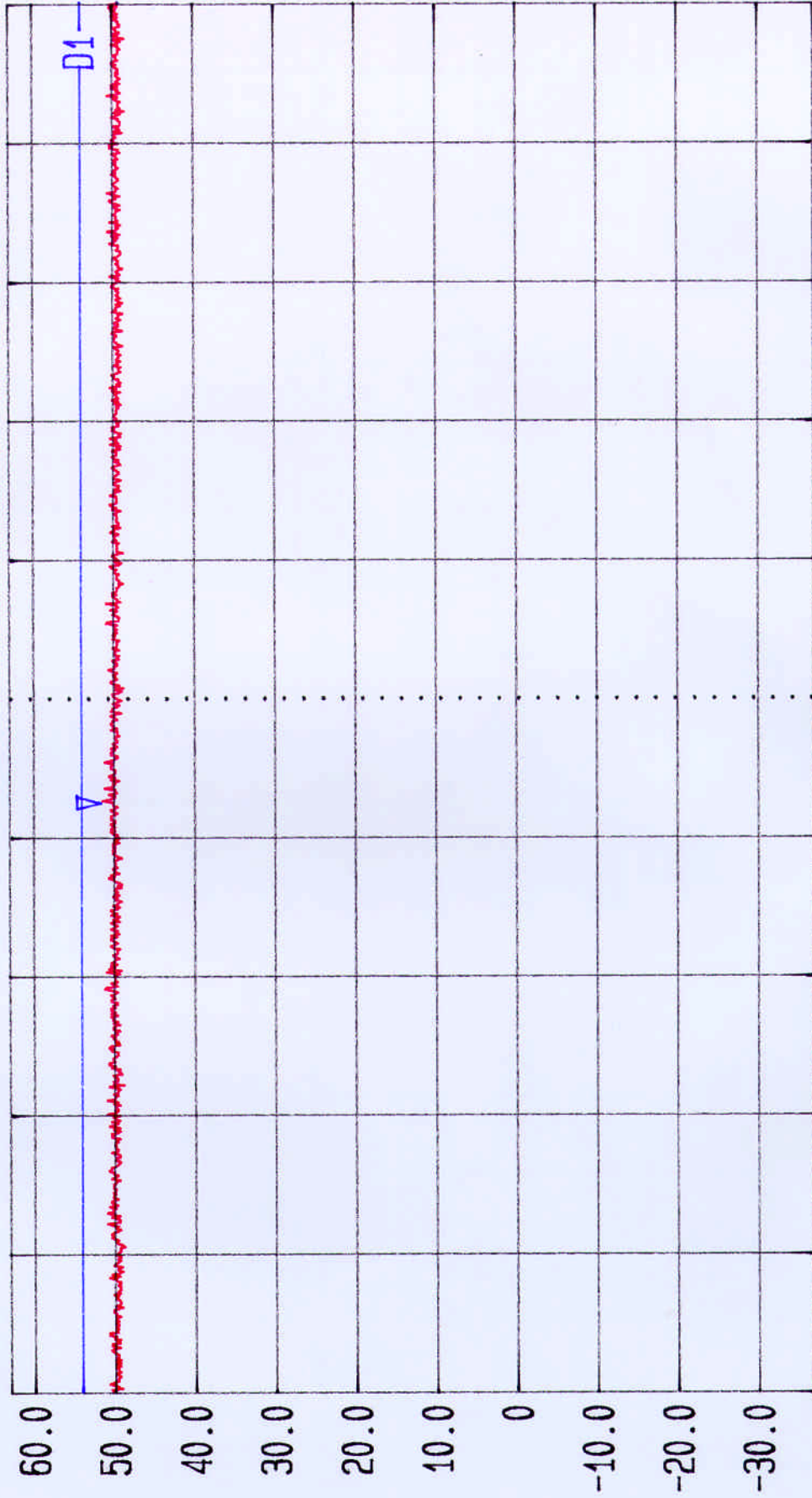
6.8511 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
200.000 MHz

Vid.Bw
RF.Att
Unit

3 MHz
0 dB
[dBμV/m]



TT
4
PA
10
FI

Start
6 GHz

Span
2 GHz

Center
7 GHz

Sweep
20 ms

Stop
8 GHz

Tested by RFI for RED M.

Spec: FCC Part 15.209

EUT: 3000AS

Opcond: TX Hopping All Channels Internal Antenna

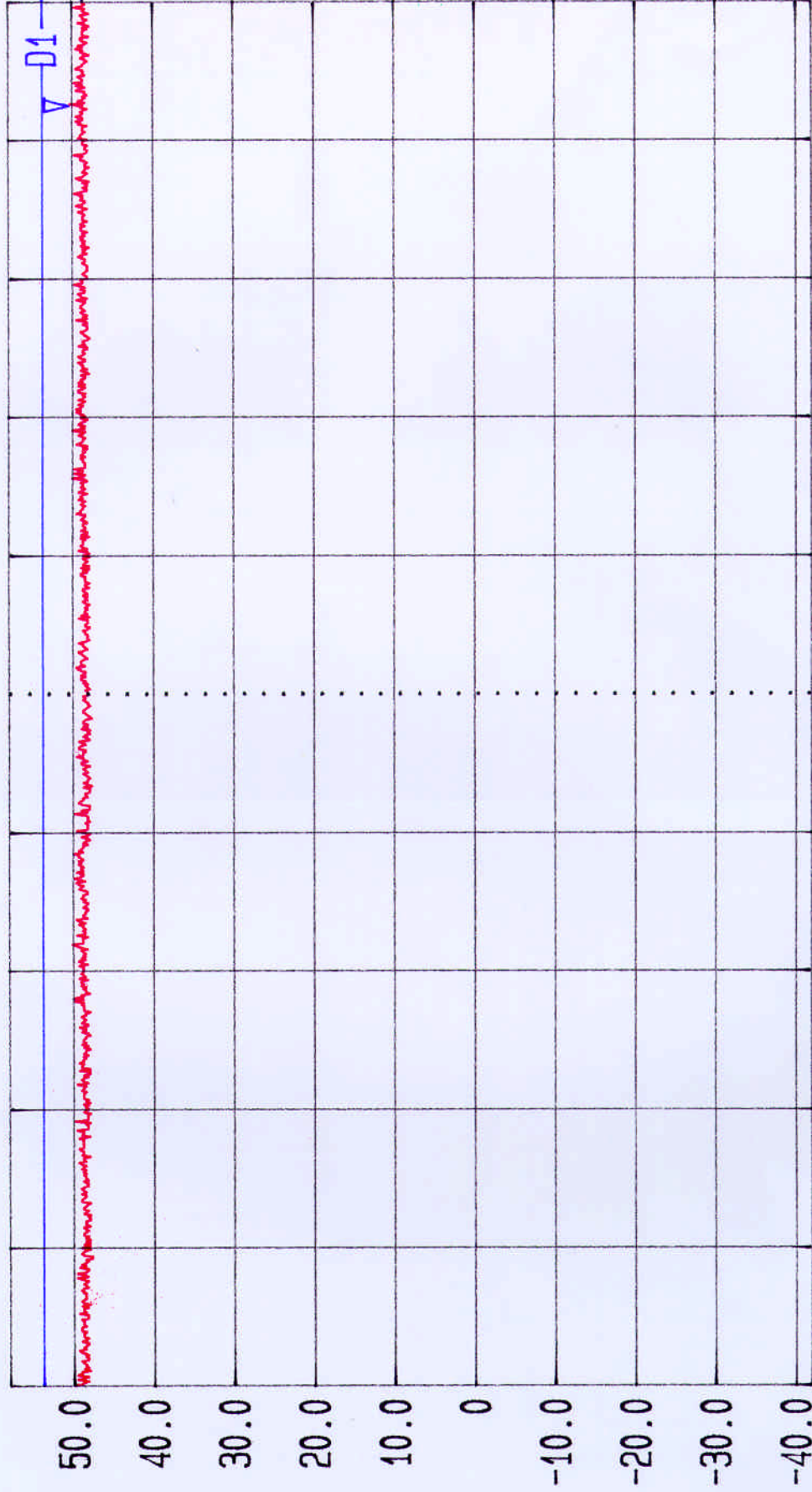
GPH: 41715/04/04/042

ENG: PG



Date 19.Dec.'00 Time 21:56:17
Ref.Lvl 58.00 dB* Marker 50.56 dB*
11.7022 GHz

Res.Bw 1 MHz [imp] Vid.Bw 3 MHz
TG.Lvl Off RF.Att 0 dB
CF.Stp 400.000 MHz Unit [dBμV/m]



Tested by RFI for RED M. EUT: 3000AS
Spec: FCC Part 15.209 Opcond: TX Hopping All Channels Internal Antenna
GPH: 41715/04/04/043
ENG: PG



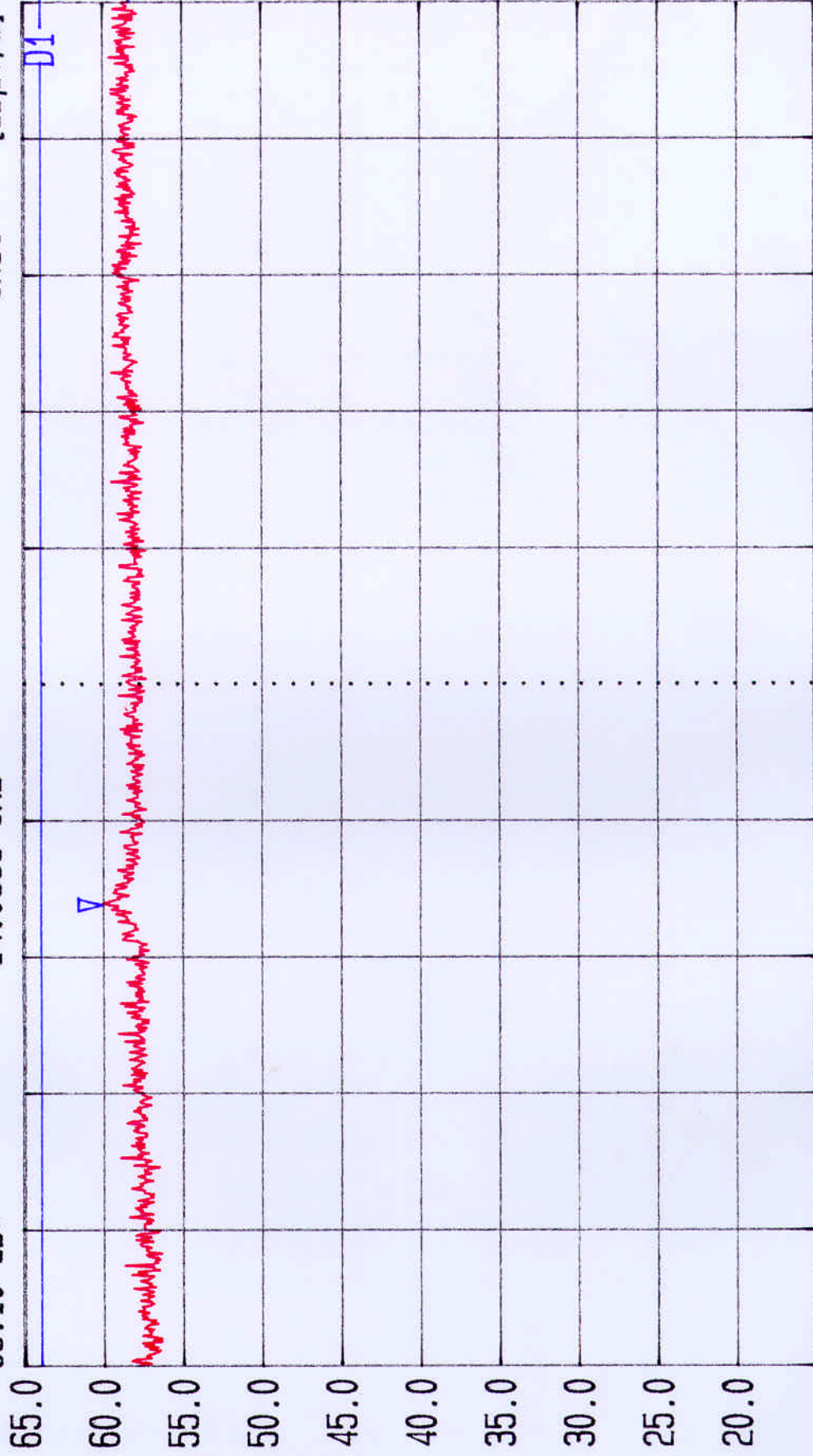
Date 19.Dec.'00 Time 22:10:52

Ref.Lvl 65.10 dBx

Marker 60.20 dBx

14.0333 GHz

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



Start 12 GHz
Span 6 GHz
Center 15 GHz
Sweep 40 ms
Stop 18 GHz

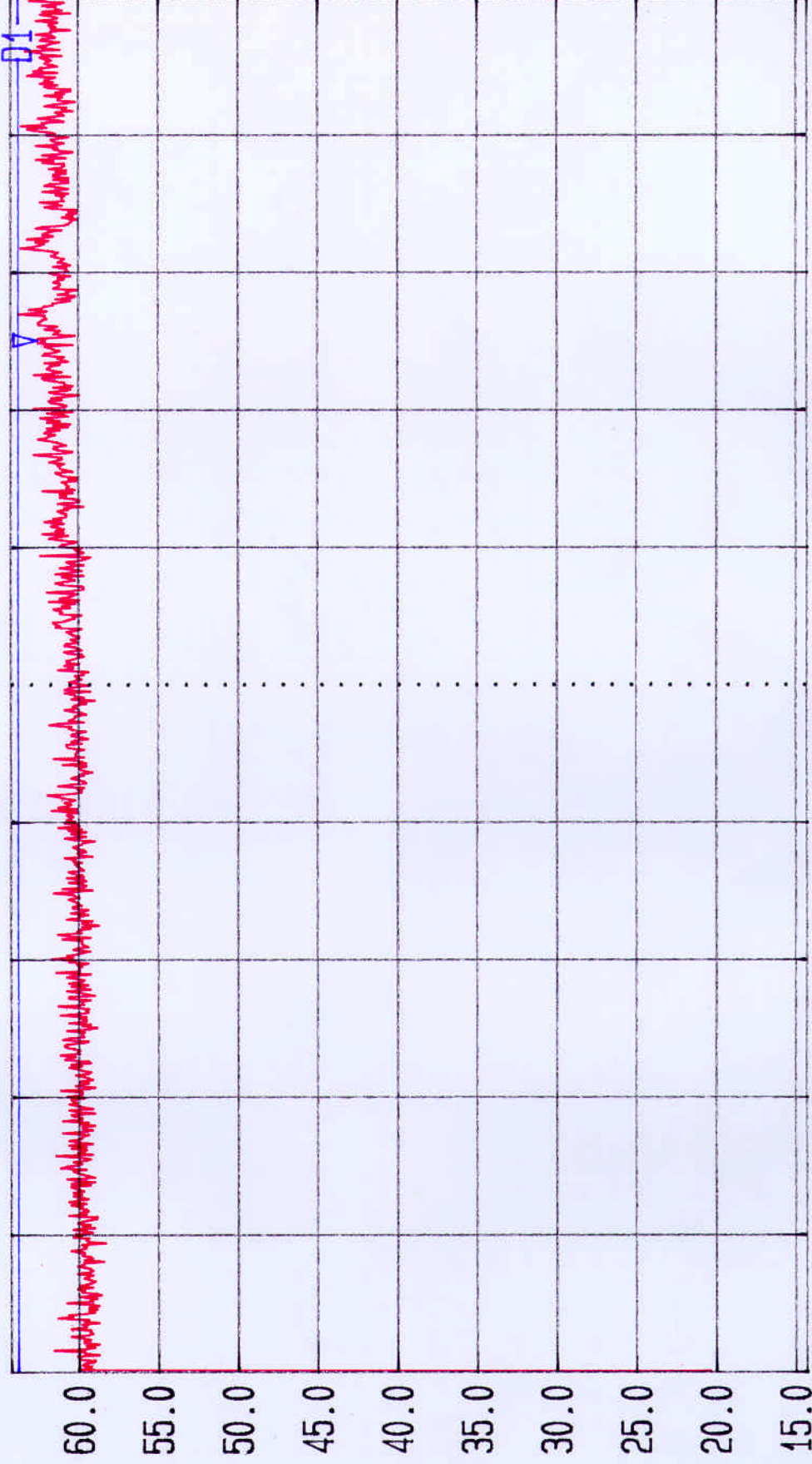
Tested by RFI for RED M.
Spec: FCC Part 15.209
EUT: 3000AS
Opcond: TX Hopping All Channels Internal Antenna
GPH: 41715/04/04/044
ENG: PG

TT
4
PA
10
FI



Date 19.Dec.'00 Time 22:26:06
Ref.Lvl 64.30 dBx
Marker 62.69 dBx
24.0088 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 800.000 MHz
Vid.Bw 1 MHz
RF.Att 0 dB
Unit [dBμV/m]



Start 18 GHz
Span 8 GHz
Center 22 GHz
Sweep 60 ms
Stop 26 GHz

Tested by RFI for RED M.
Spec: FCC Part 15.209
EUT: 3000AS
Opcond: TX Hopping All Channels Internal Antenna
GPH: 41715/04/04/045
ENG: PG

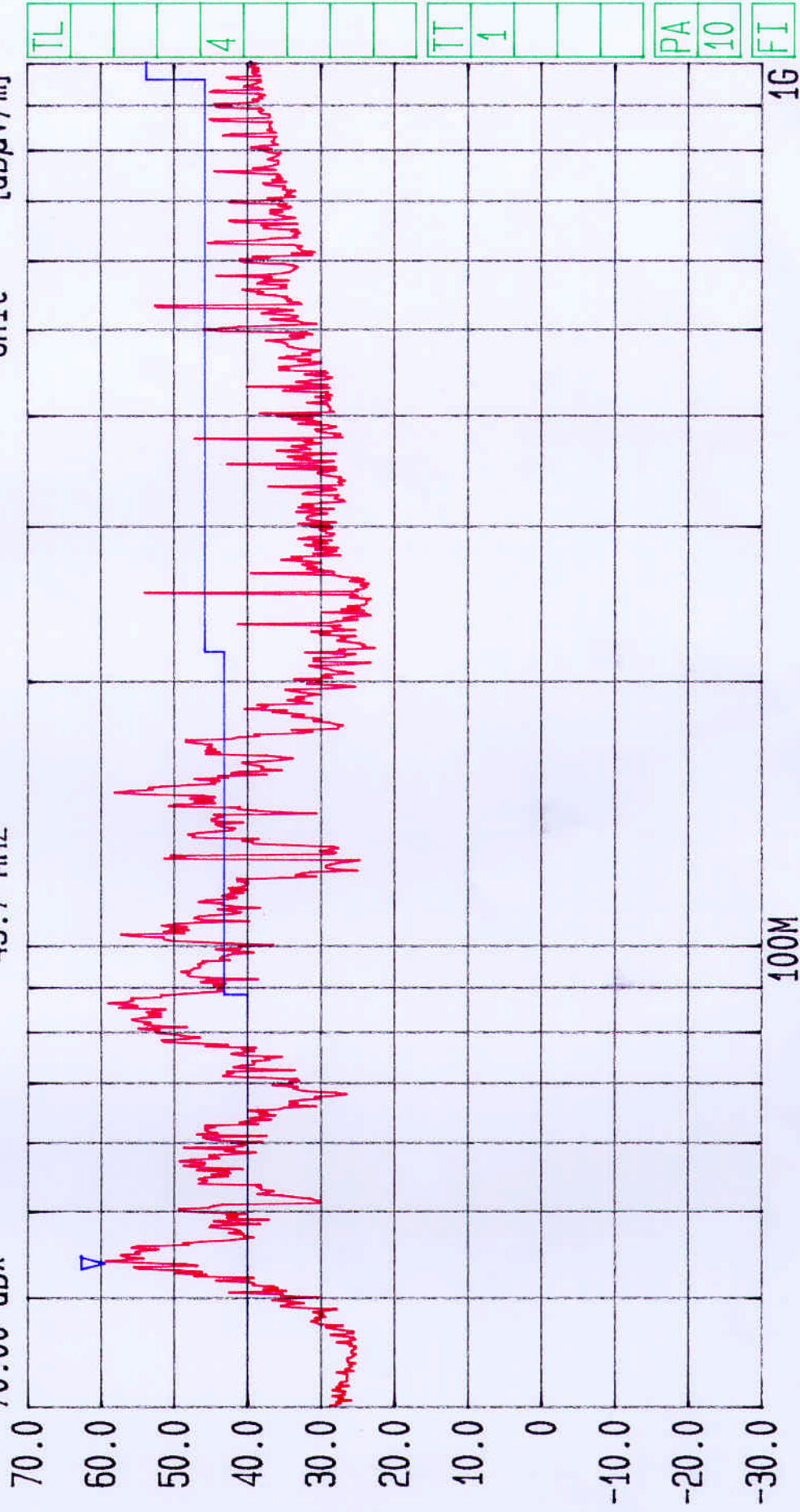
TT
4
PA
10
FI



Date 04.Jan.'87 Time 17:14:38
Ref.Lvl 70.00 dBx
Marker

Res.Bw 120 kHz [imp]
TG.Lvl Off
CF.Stp 97.000 MHz
43.7 MHz

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



Start 30 MHz
Span 970 MHz
Center 173.2 MHz
Sweep 380 ms
Stop 1 GHz
Tested by RFI for RED M.
Spec: Part 15.209
EUT: 3000AS
GPH: 41715/04/04/046
Opcond: Tx Hopping All Channels Internal Antenna
ENG: PG



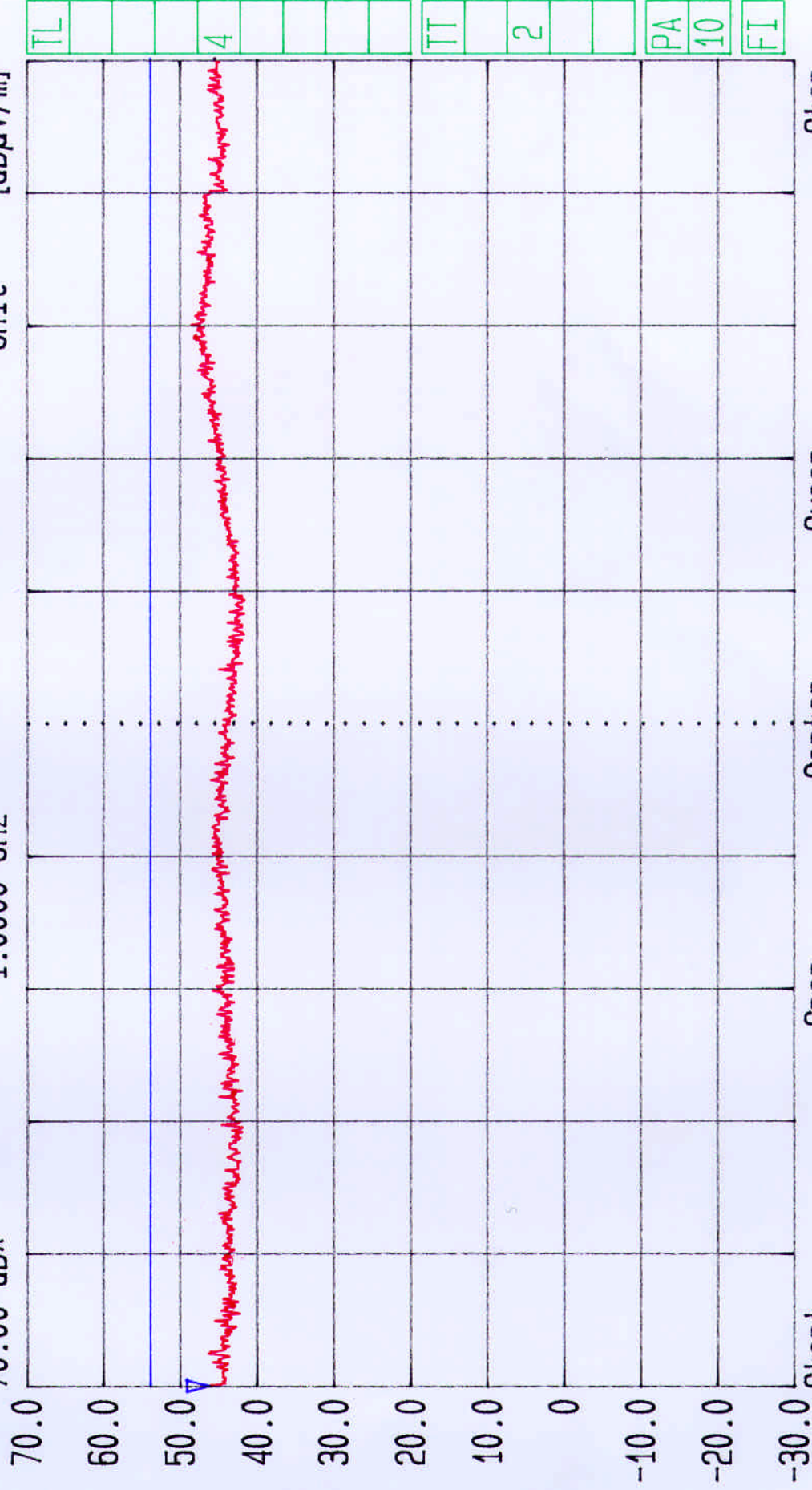
Date 04. Jan. '87 Time 17:43:57
Ref.Lvl 70.00 dBx
Marker

45.26 dBx
1.0000 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
100.000 MHz

Vid.Bw 3 MHz
RF.Att 0 dB
Unit [dBμV/m]



Tested by RFI for RED M. EUT: 3000AS
Spec: Part 15.209 Opcond: Tx Hopping All Channels Internal Antenna
GPH: 41715/04/04/047
ENG: PG



Date 04. Jan. '87 Time 17:50:42

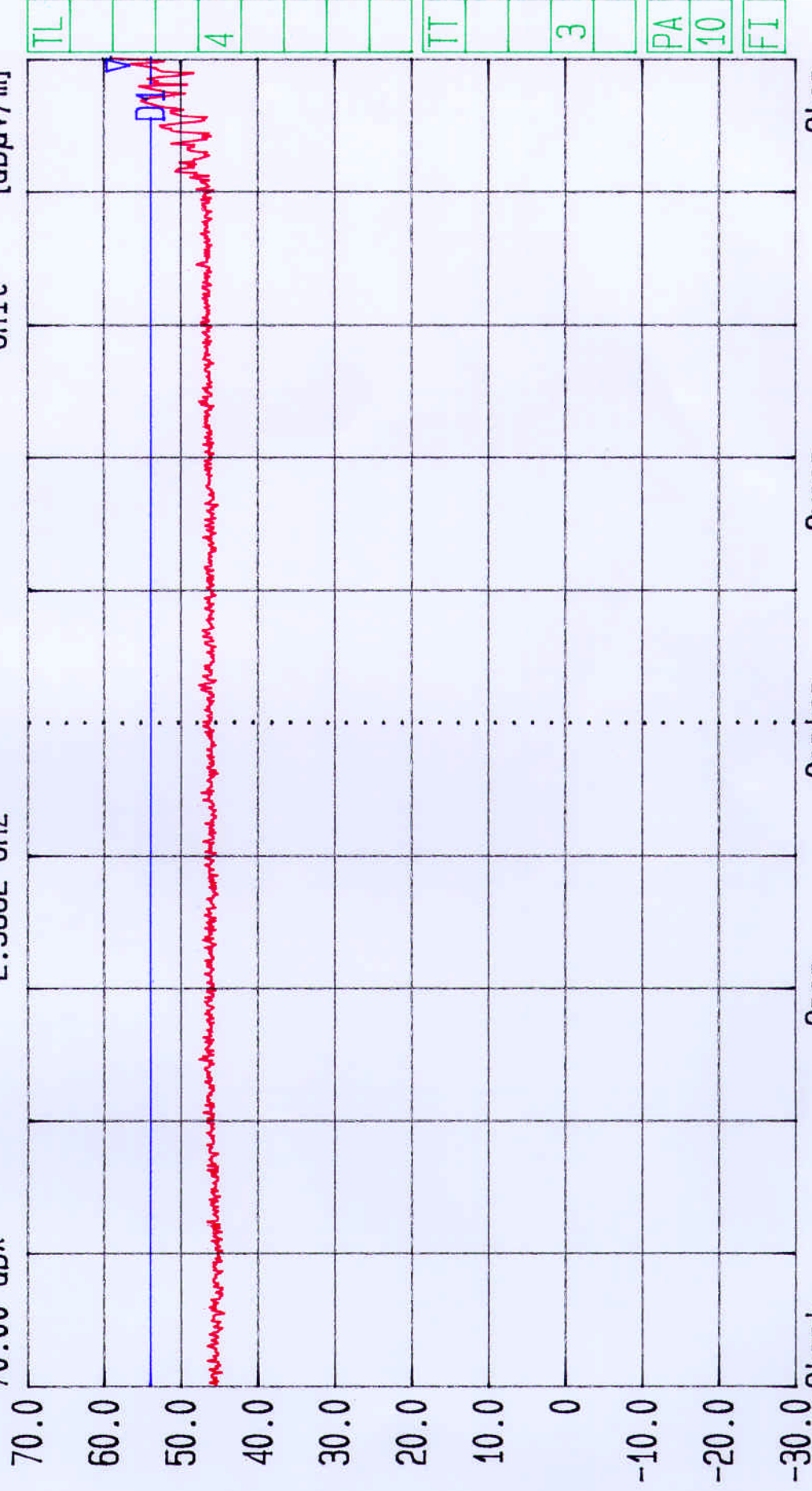
Ref.Lvl 70.00 dBx

Marker 56.75 dBx
2.3882 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
39.000 MHz

Vid.Bw 3 MHz
RF.Att 0 dB
Unit [dBμV/m]



Start 2 GHz Stop 2.39 GHz
Span 390 MHz Sweep 20 ms
Center 2.195 GHz

Tested by RFI for RED M. EUT: 3000AS
Spec: Part 15.209 Opcond: Tx Hopping All Channels Internal Antenna
GPH: 41715/04/04/048
ENG: PG



Date 04.Jan.'87 Time 17:59:59

Ref. Lvl] Marker

Ref.Lvl

61.40 dB*

2.4937 GHz

Res.Bw
TG.Lv1

CF.Stp

1 MHz [imp]_{off}

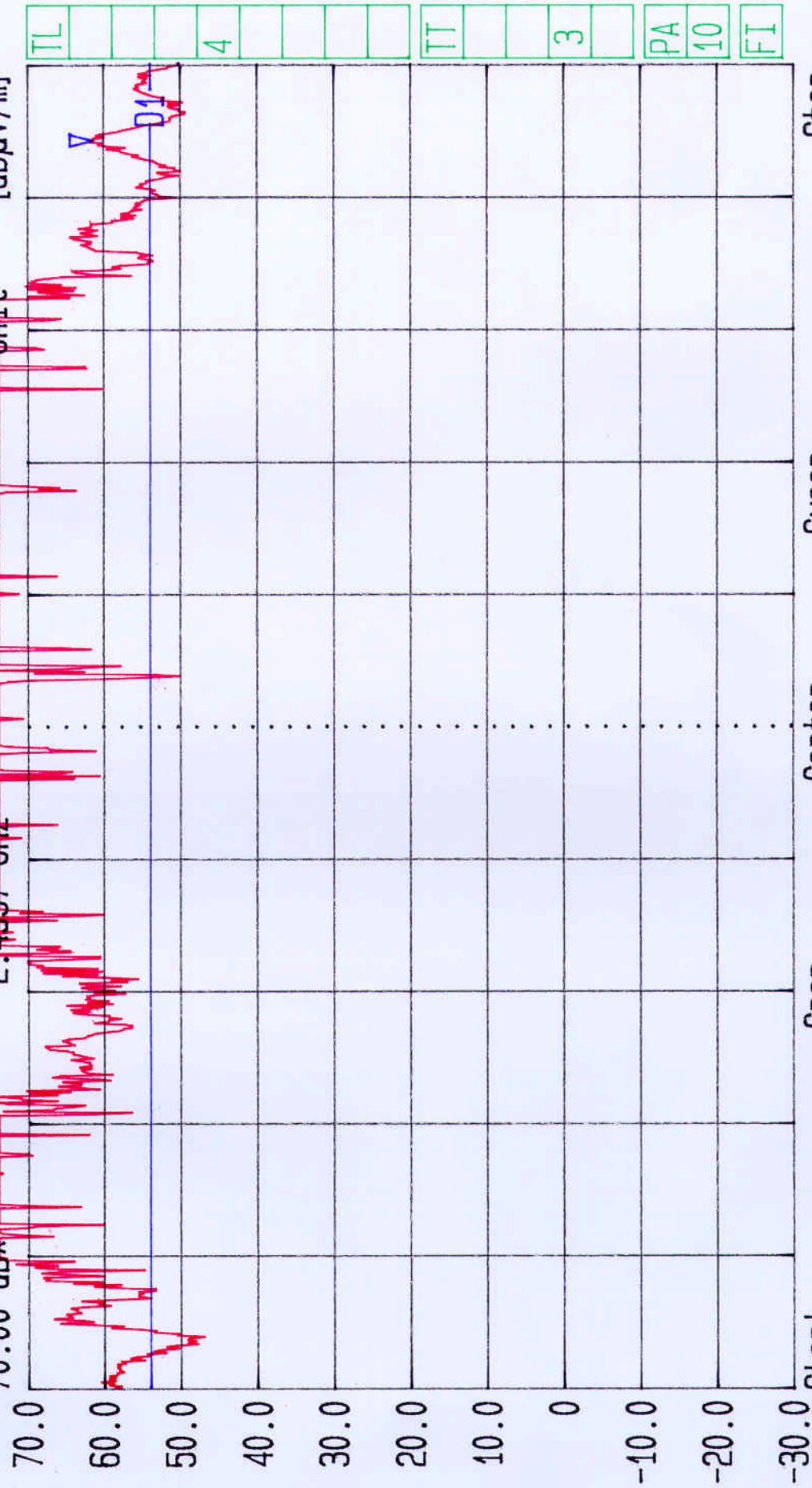
11.000 MHz

Vid.Bw

RF.Att

3 MHz

0 dB

 $[dB\mu V/m]$ 

Stop
2.5 GHz

Sweep
20 ms

Center
2.445 GHz

Span
110 MHz

Start
2.39 GHz

Tested by RFI for RED M. EUT: 3000AS GPH: 41715/04/04/049
Spec: Part 15.209 Opcond: Tx Hopping All Channels Internal Antenna ENG: PG

FUT: 300AS

04/049
ENG: PG



Date 04.Jan.'87 Time 18:05:14

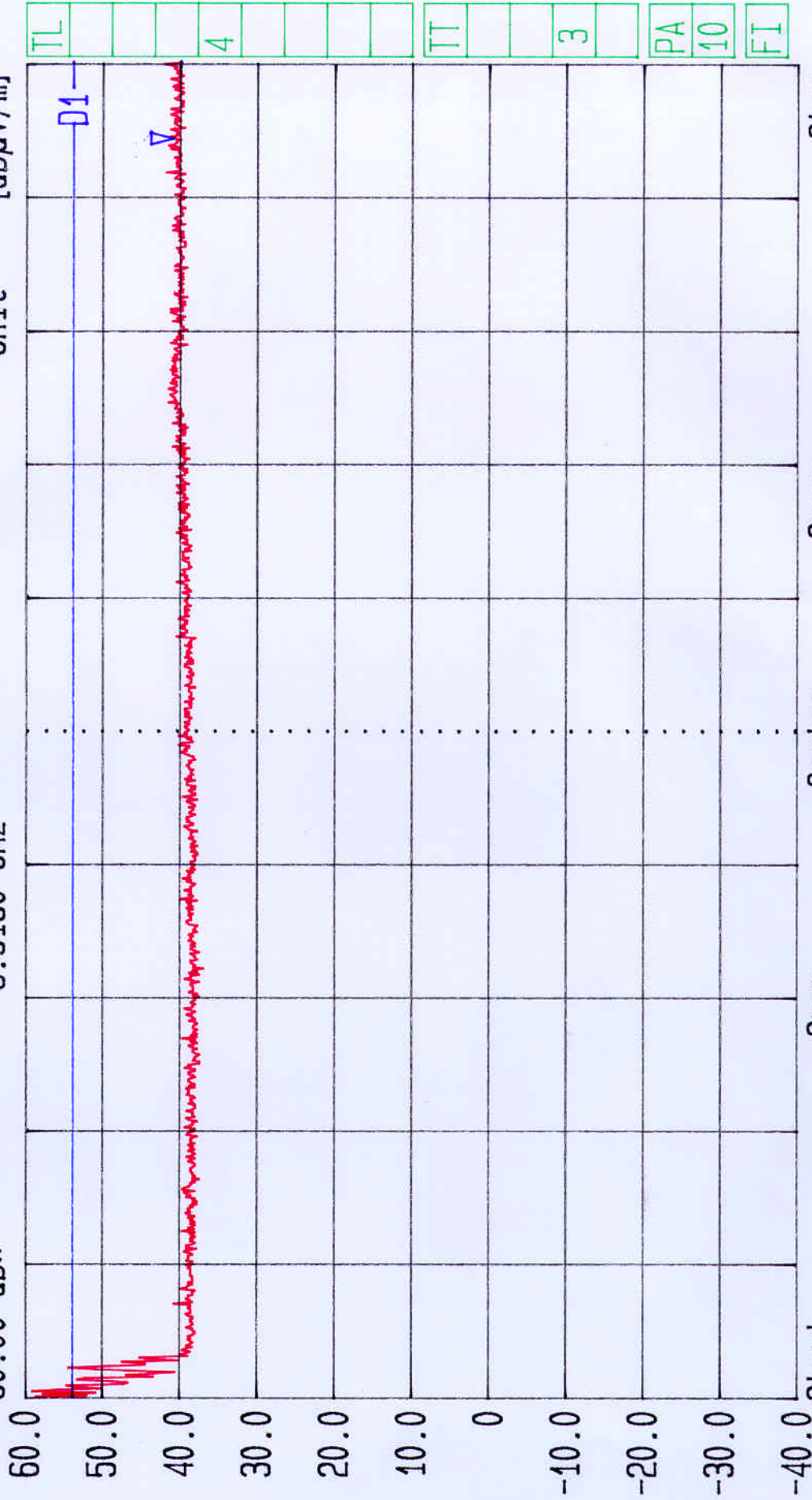
Ref.Lvl 60.00 dB*

Marker 41.04 dB*
3.9150 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off

Vid.Bw 3 MHz

RF.Att 0 dB
Unit [dBμV/m]



Tested by RFI for RED M.

Spec: Part 15.209

EUT: 3000AS

Opcond: Tx Hopping All Channels Internal Antenna

GPH: 41715/04/04/050

ENG: PG