

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 3)

This appendix contains the following graphs:

Graph Reference Number	Title
GPH\41715ETF04\051	Hopping All Channels Internal Antenna, (30 MHz to 1 GHz) Section 15.209
GPH\41715ETF04\052	Hopping All Channels Internal Antenna, (1 GHz to 2 GHz) Section 15.209
GPH\41715ETF04\053	Hopping All Channels Internal Antenna, (2 GHz to 2.39 GHz) Section 15.209
GPH\41715ETF04\054	Hopping All Channels Internal Antenna, (2.39 GHz to 2.5 GHz) Section 15.209
GPH\41715ETF04\055	Hopping All Channels Internal Antenna, (2.5 GHz to 4 GHz) Section 15.209
GPH\41715ETF04\056	Hopping All Channels Internal Antenna, (4 GHz to 6 GHz) Section 15.209
GPH\41715ETF04\057	Hopping All Channels Internal Antenna, (6 GHz to 8 GHz) Section 15.209
GPH\41715ETF04\058	Hopping All Channels Internal Antenna, (8 GHz to 12 GHz) Section 15.209
GPH\41715ETF04\059	Hopping All Channels Internal Antenna, (12 GHz to 18 GHz) Section 15.209
GPH\41715ETF04\060	Hopping All Channels Internal Antenna, (18 GHz to 26 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 05-Jan-'87 Time 00:35:55

Ref.Lvl Marker

80.00 dB*

42.57 dB*

943.2 MHz

Res.Bw
TG.Lvl

CF.Stp

120 kHz [imp]
Off

97.000 MHz

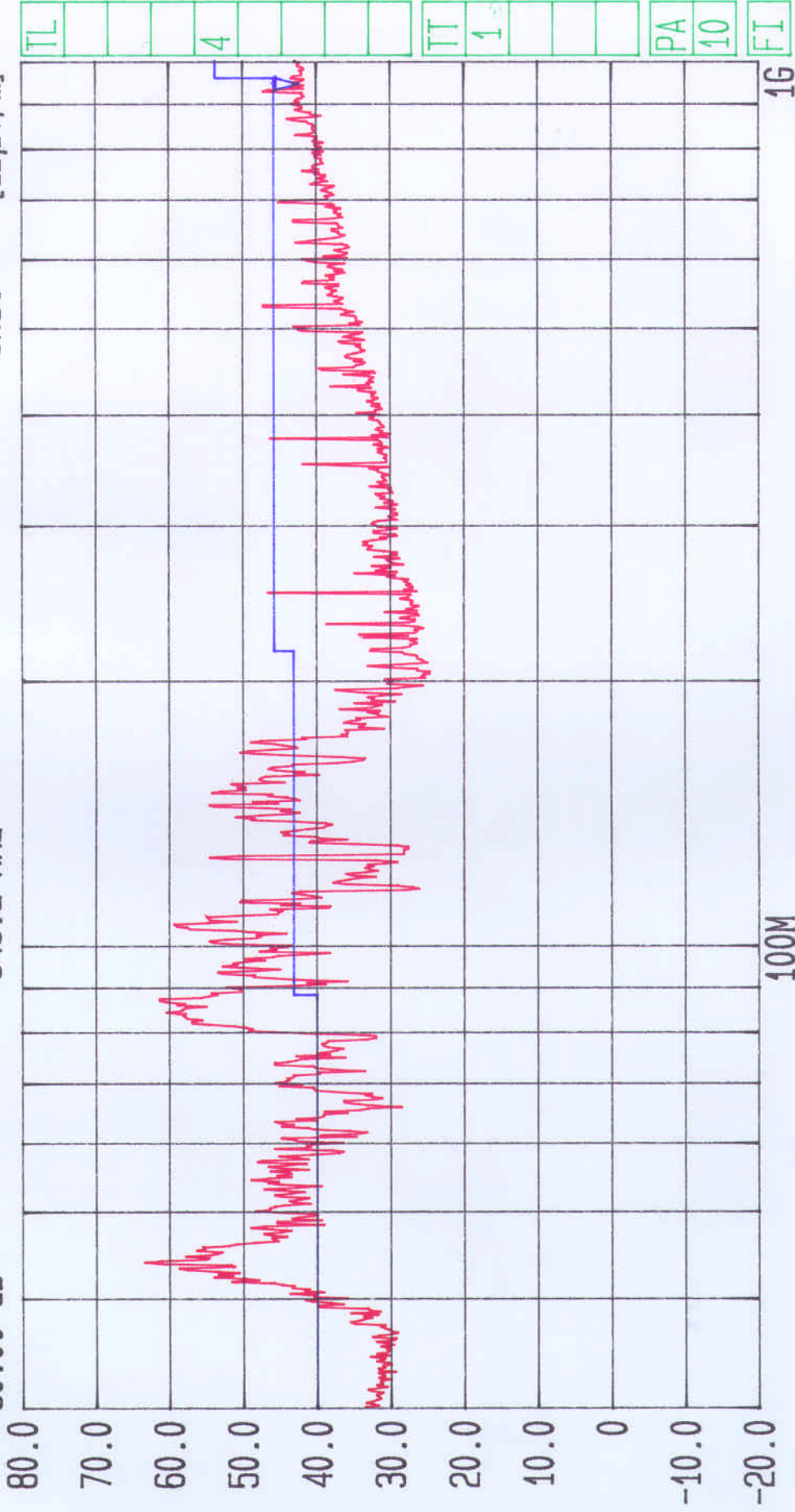
Vid.Bw

RF.Att

3 MHz

0 dB

[dBµV/m]



Start
30 MHz

Span
970 MHz

Center
173.2 MHz

Sweep
380 ms

Stop
1 GHz

Tested by RFI for RED M.

EUT: 3000AS

GPH: 41715/04/04/051

Spec: Part 15.209

Opcond: Tx Hopping All Channels Internal Antenna

ENG: PG



Date 05.Jan.'87 Time 00:52:28

Ref.Lvl Marker

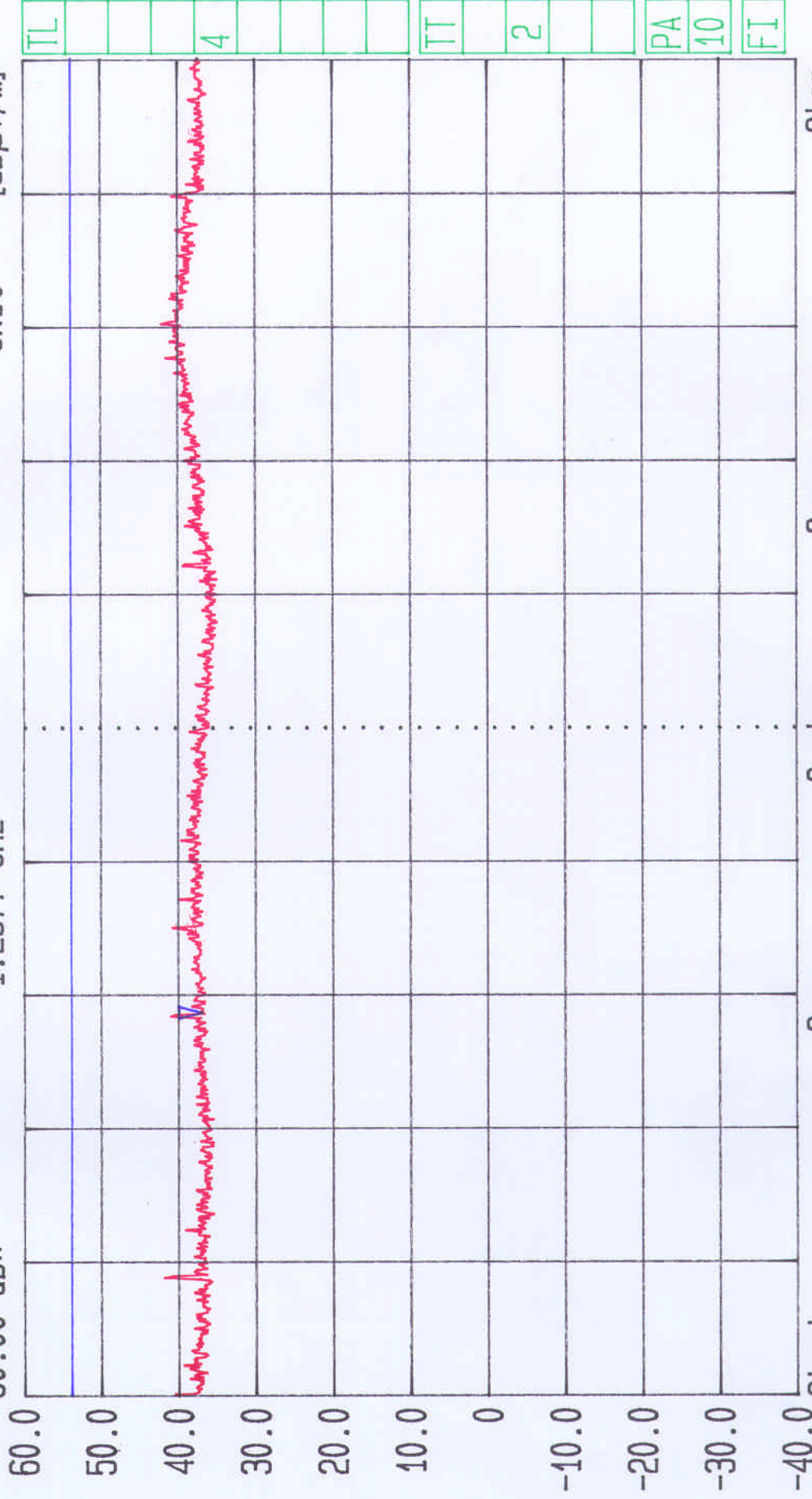
60.00 dB* 37.13 dB* 1.2877 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
100.000 MHz

Vid.Bw
RF.Att
Unit

3 MHz
0 dB
[dB μ V/m]



Tested by RFI for RED M.

Spec: Part 15.209

EUT: 3000AS

Opcond: Tx Hopping All Channels Internal Antenna

GPH: 41715/04/04/052

ENG: PG



Date 05.Jan.'87 Time 00:58:12

Ref.Lvl Marker

60.00 dBx

Res.Bw
TG.Lvl
CF.Stp

48.37 dBx

2.3320 GHz

1 MHz [imp]
off

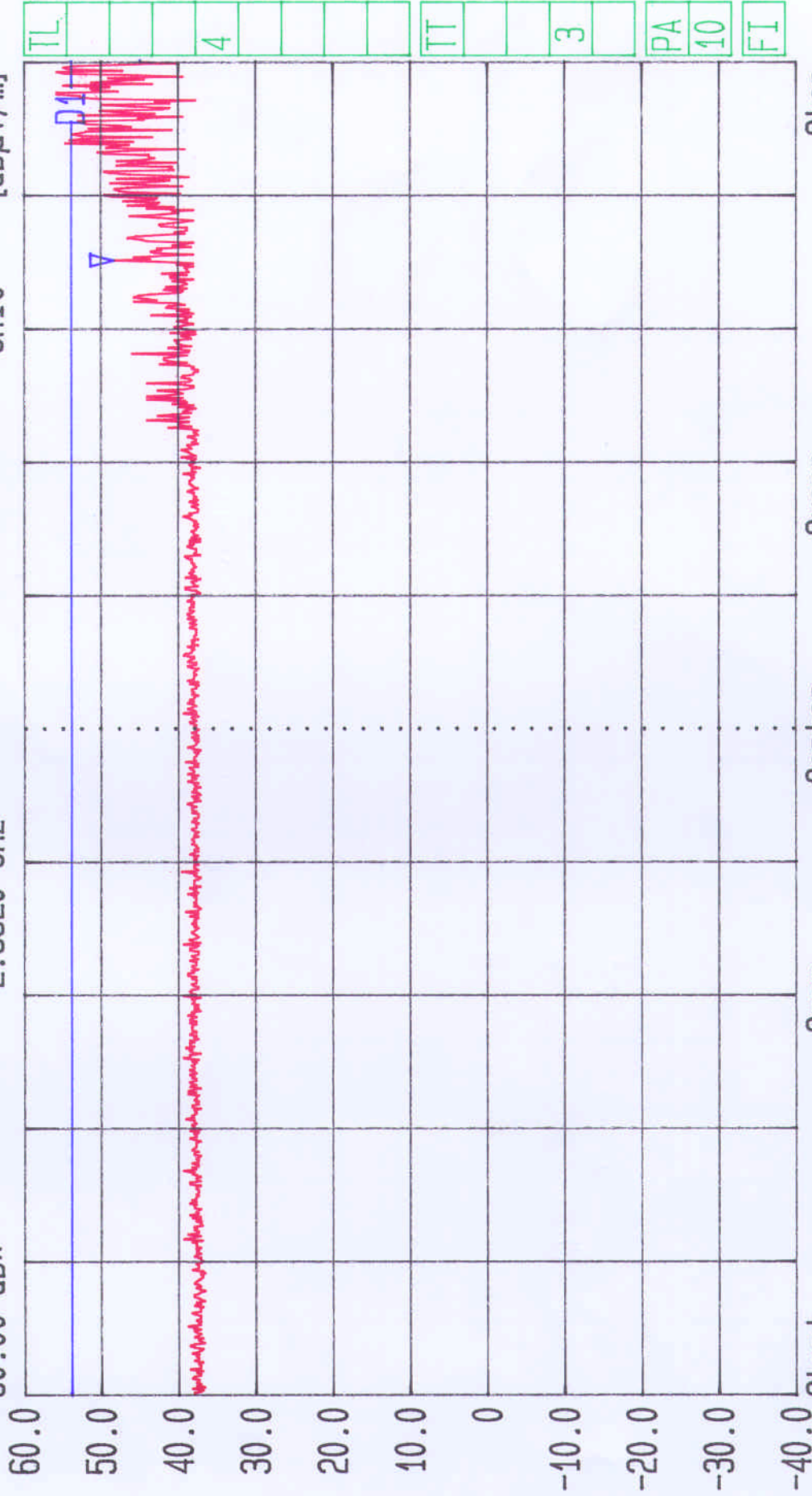
39.000 MHz

Vid.Bw
RF.Att
Unit

0 dB

[dBuV/m]

3 MHz



Tested by RFI for RED M. EUT: 3000AS

Spec: Part 15.209 Opcond: Tx Hopping All Channels Internal Antenna

GPH: 41715/04/04/053

ENG: PG



Date 05.Jan.'87 Time 01:06:36

Ref.Lvl 70.00 dB*

Marker 63.56 dB*

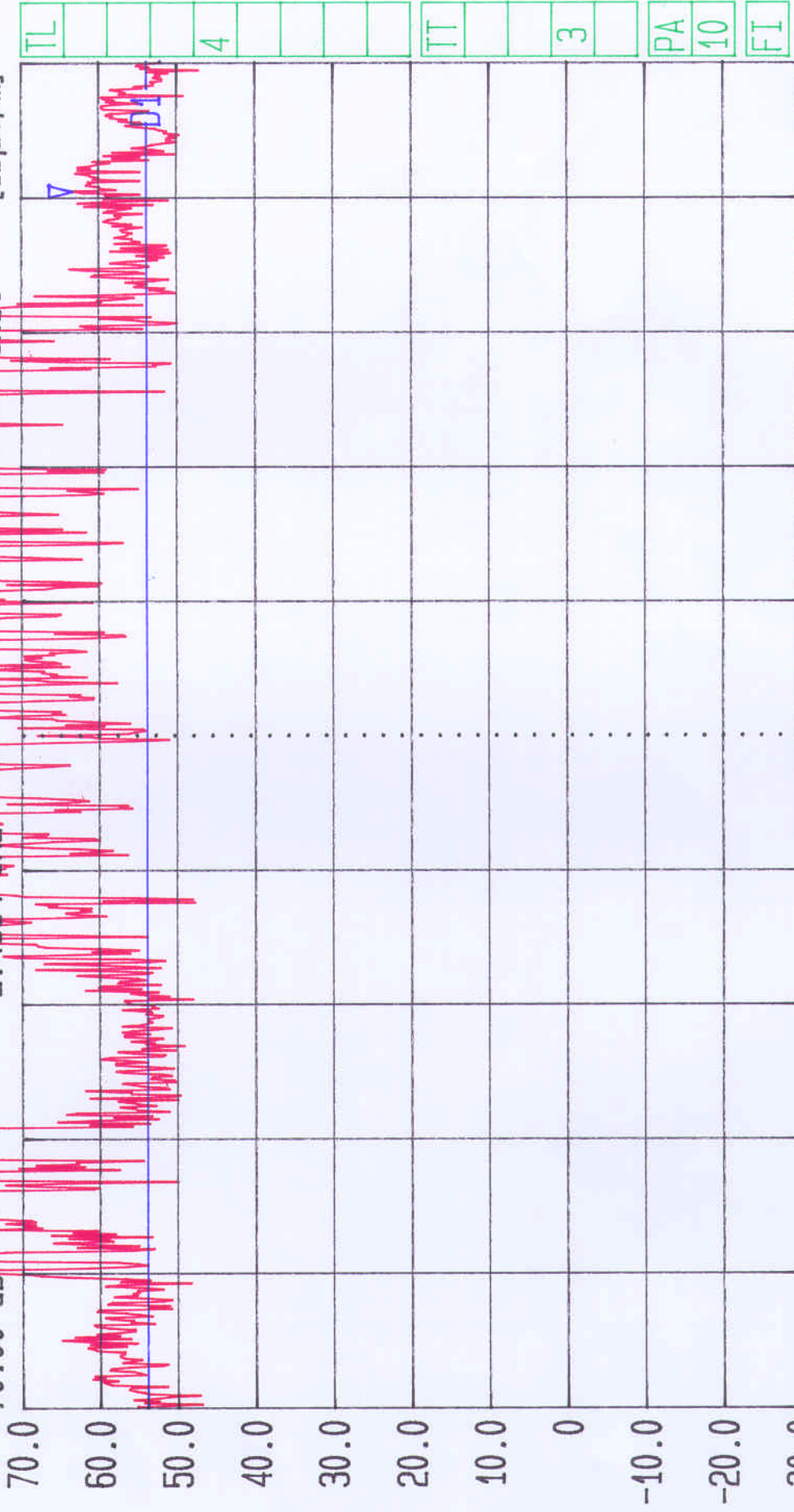
2.4894 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
11.000 MHz

Vid.Bw
RF.Att
Unit

3 MHz
0 dB
[dBμV/m]



Start
2.39 GHz

Span
110 MHz

Center
2.445 GHz

Sweep
20 ms

Stop
2.5 GHz

Tested by RFI for RED M.

EUT: 3000AS

GPH: 41715/04/04/054

Spec: Part 15.209

Opcond: Tx Hopping All Channels External Antenna

ENG: PG



Date 05.Jan.'87 Time 01:11:50

Ref.Lvl 70.00 dB* Marker

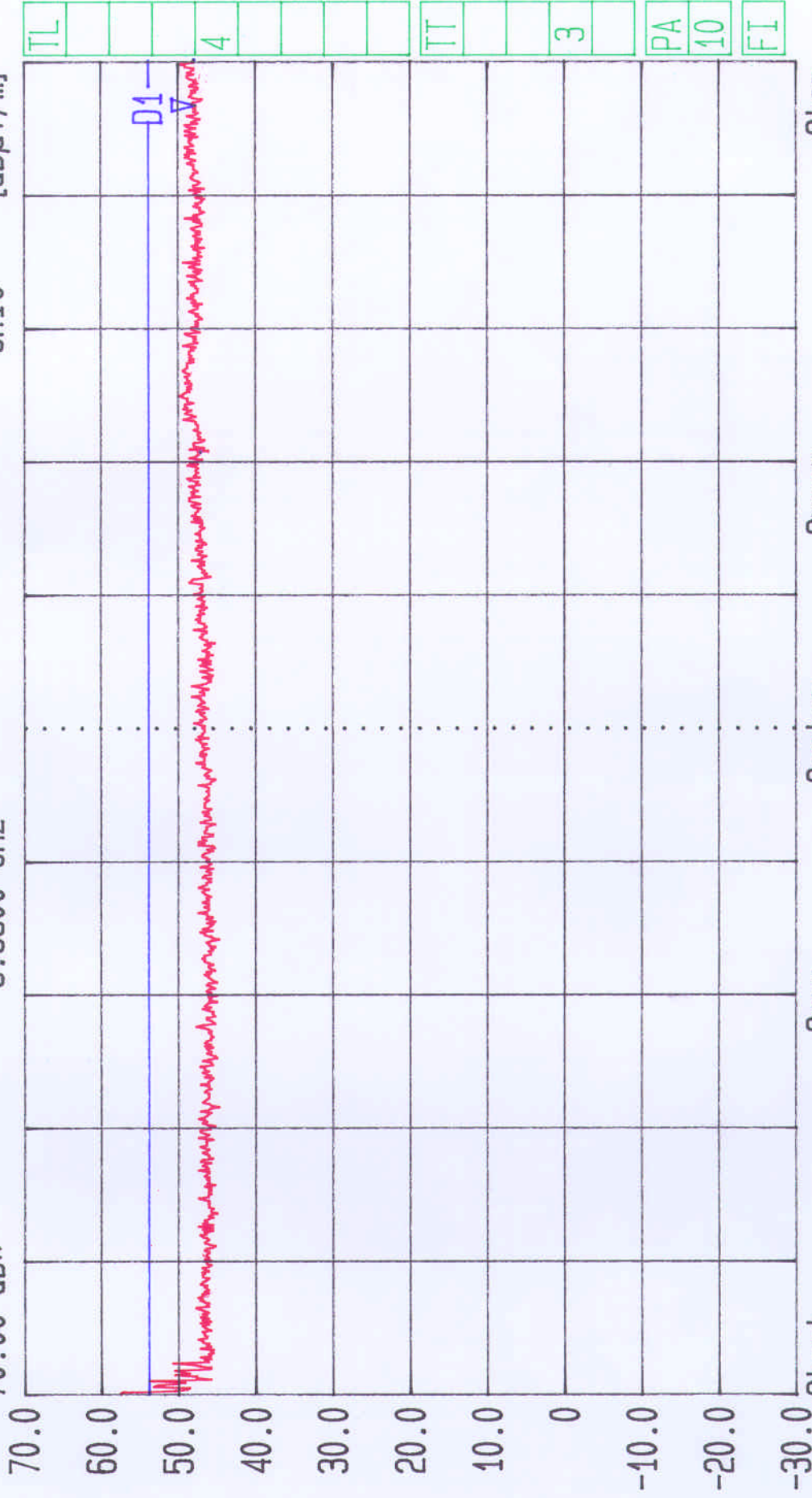
48.01 dB*
3.9500 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
150.000 MHz

Vid.Bw
RF.Att
Unit

3 MHz
0 dB
[dB μ V/m]



Tested by RFI for RED M.

EUT: 3000AS

GPH: 41715/04/04/055

Spec: Part 15.209

Opcond: Tx Hopping All Channels External Antenna

ENG: PG



Date 20.Dec.'00 Time 10:45:44

Ref.Lvl 60.00 dBx

Marker 48.77 dBx

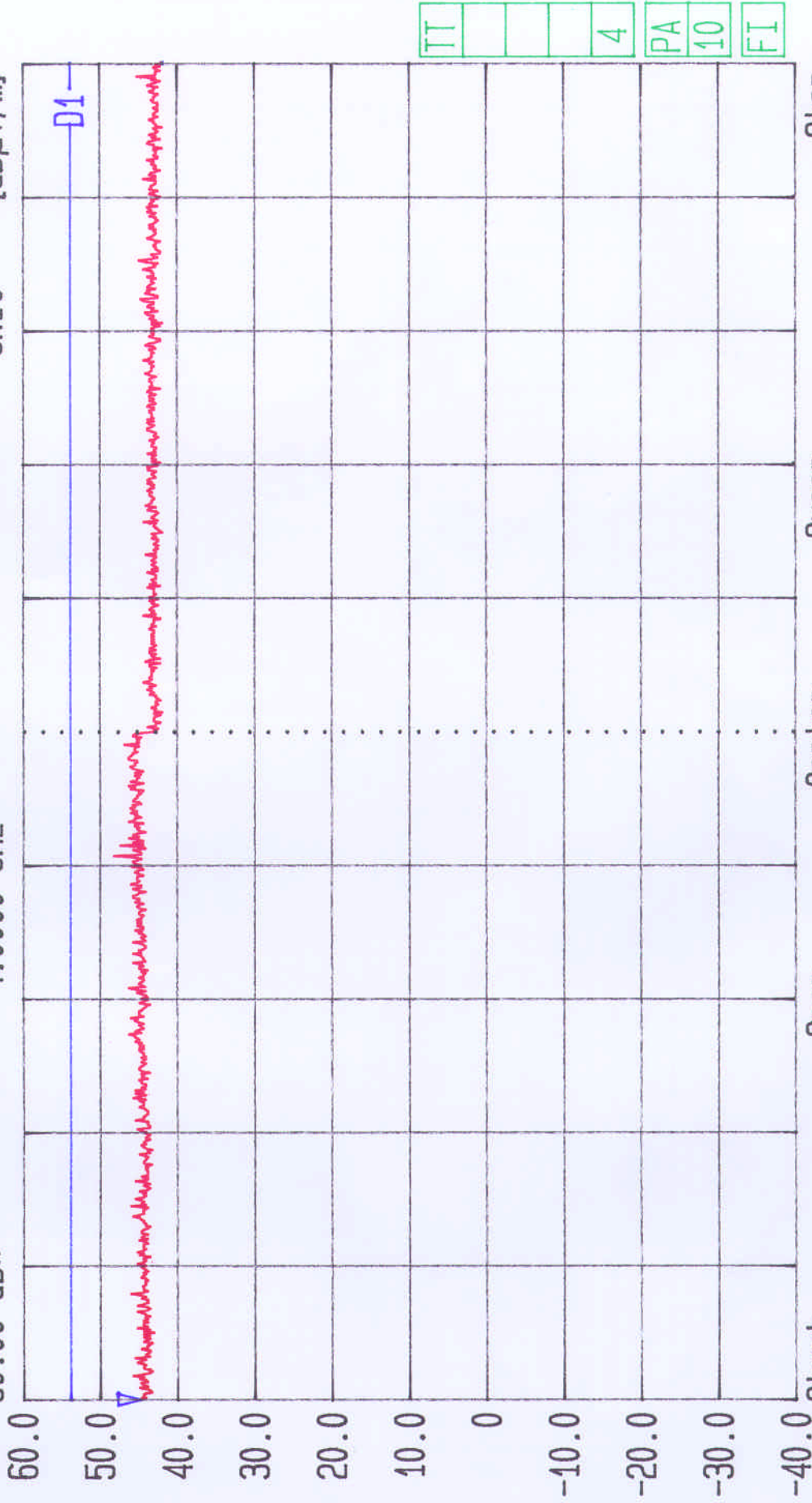
4.0000 GHz

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 External Antenna

GPH: 41715/04/04/056
ENG: PG



Date 20.Dec.'00 Time 10:50:50

Ref.Lvl 60.00 dBx

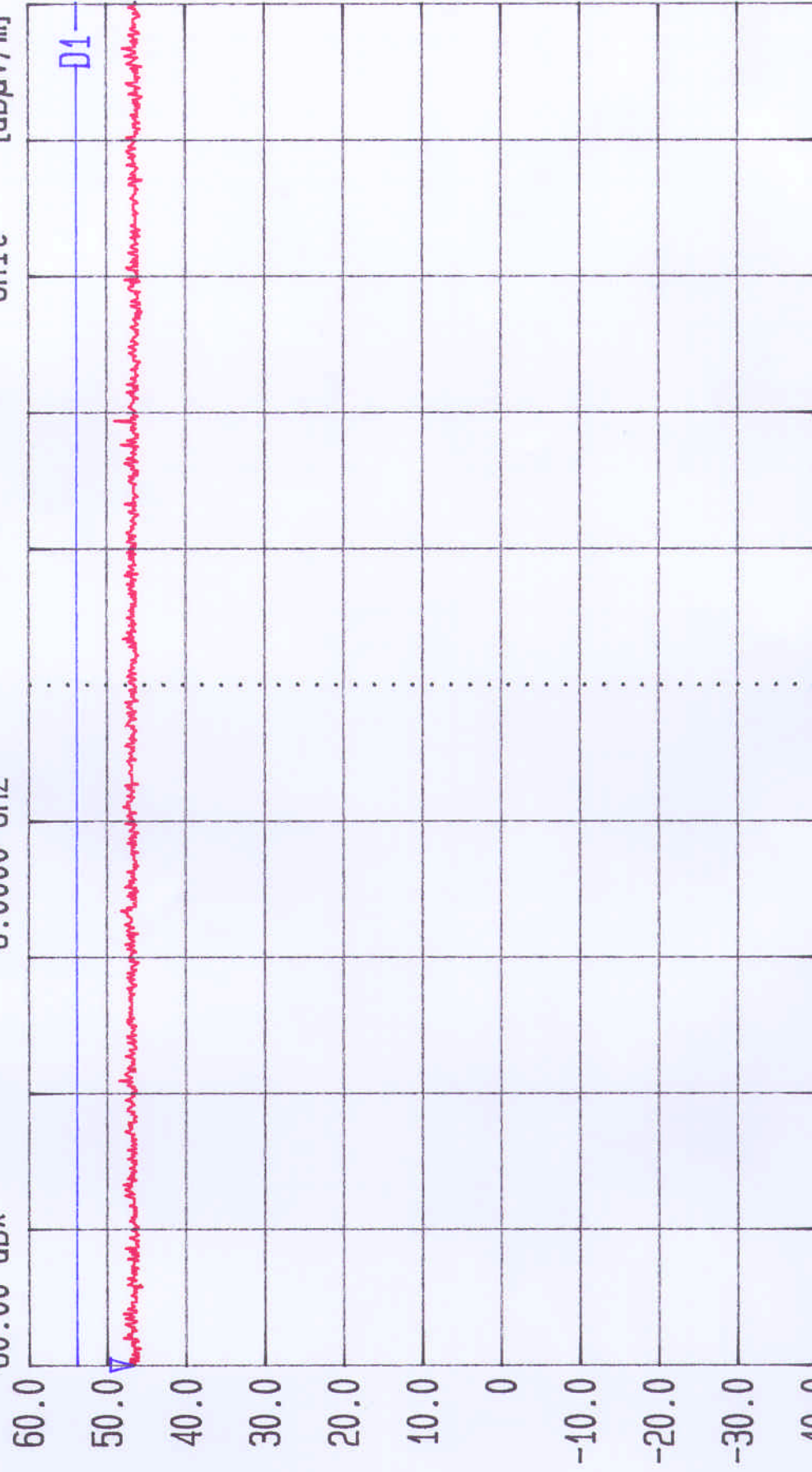
Marker 46.70 dBx

6.0000 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
200.000 MHz

Vid.Bw 3 MHz
RF.Att 0 dB
Unit [dBuV/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 External Antenna
GPH: 41715/04/04/057
ENG: PG



Date 20.Dec.'00 Time 10:56:15

Ref.Lvl Marker

58.00 dB*

48.79 dB*

8.0000 GHz

Res.Bw
TG.Lvl

CF.Stp

1 MHz [imp]
off

400.000 MHz

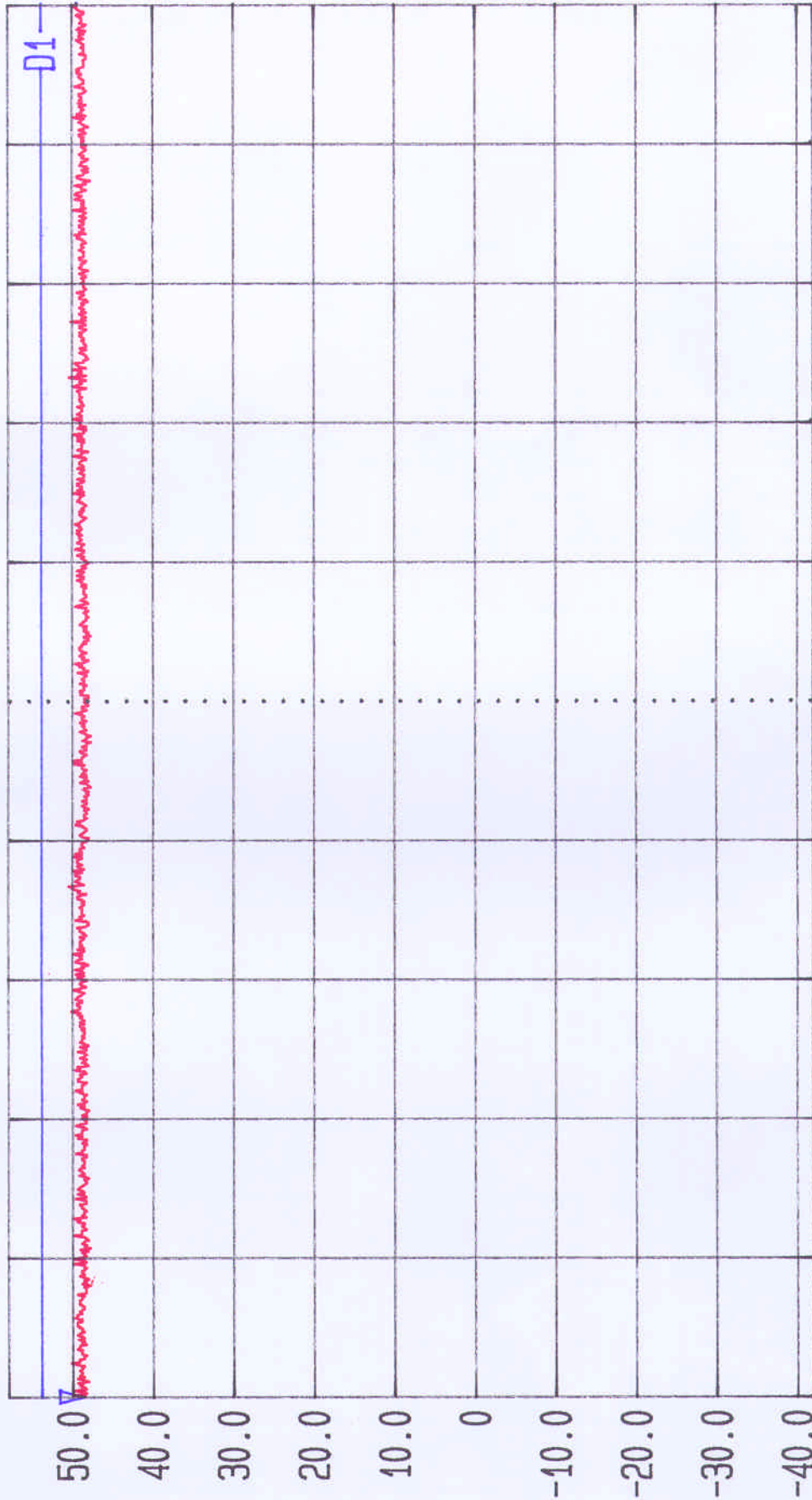
Vid.Bw

RF.Att

3 MHz

0 dB

[dBμV/m]



Start
8 GHz

Span
4 GHz

Center
10 GHz

Sweep
40 ms

Stop
12 GHz

Tested by RFI for RED M.
Spec: FCC Part 15.209

EUT: 3000AS
Opcond: TX Hopping All Channels External Antenna

GPH: 41715/04/04/058
ENG: PG



Date 20.Dec.'00 Time 11:03:38

Ref.Lvl

68.00 dB*

Marker

60.64 dB*

12.0000 GHz

Res.Bw

1 MHz [imp]

Off

600.000 MHz

Vid.Bw

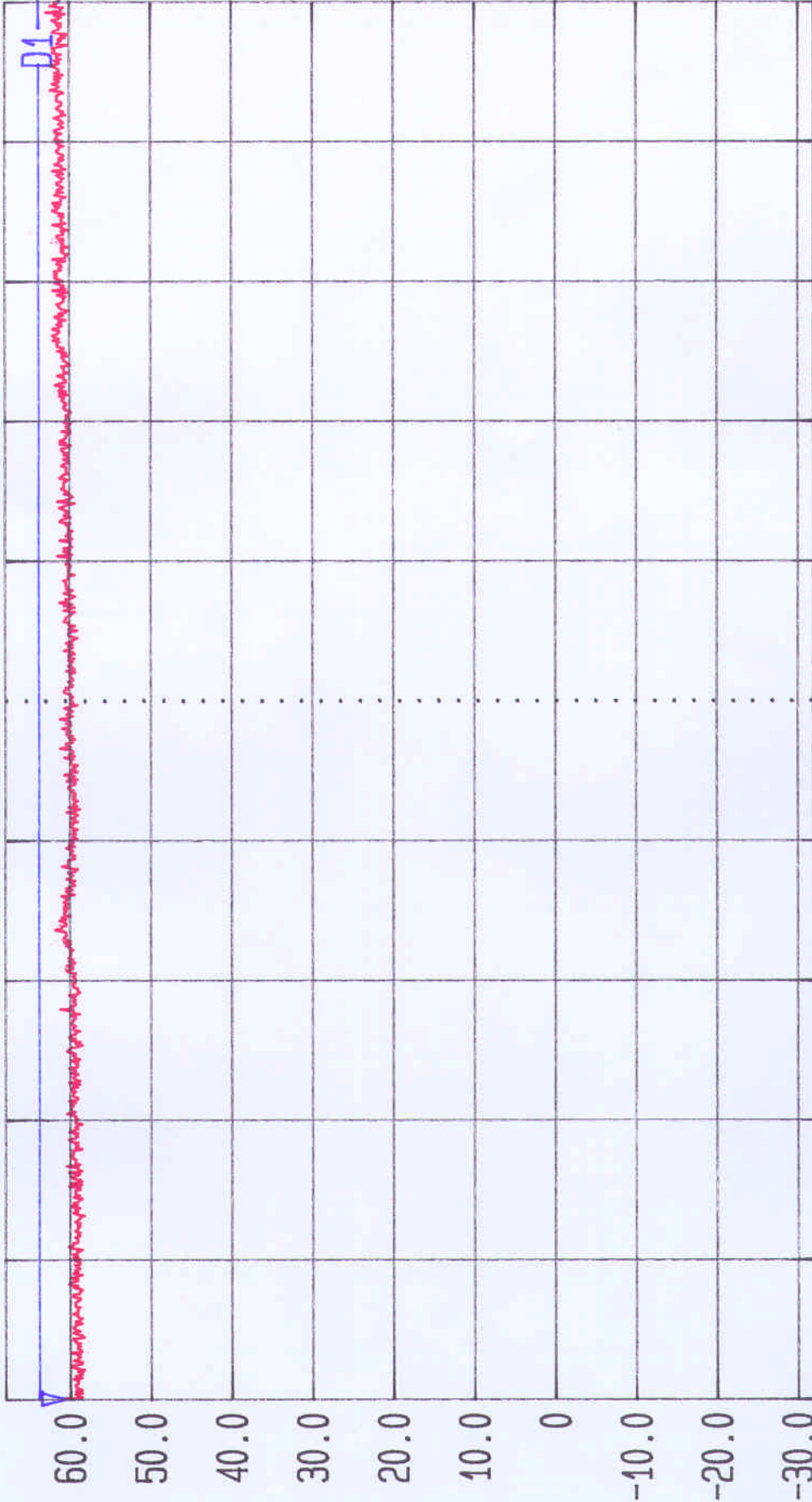
1 MHz

RF.Att

0 dB

Unit

[dB μ V/m]



TT

4

PA

10

FI

Tested by RFI for RED M.

Spec: FCC Part 15.209

EUT: 3000AS

Opcond: TX Hopping All Channels External Antenna

GPH: 41715/04/04/059

ENG: PG

1

0 dB.

 $[dB\mu V/m]$ 

Stop
26 GHz

GPH: 41715/04/04/060

ENG: PG