

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 1a)

This appendix contains the following graphs:

Graph Reference Number	Title
GPH\41715ETF04\001	Radiated Emissions, Hopping all frequencies (2.39 GHz to 2.49 GHz) Section 15.247 (a)
GPH\41715ETF04\002	Radiated Emissions, Hopping all frequencies (2.438577451 GHz to 2.440974999 GHz) Section 15.247 (a)
GPH\41715ETF04\003	Radiated Emissions, Hopping all frequencies (2.43675 GHz to 2.43925 GHz) Section 15.247 (a)
GPH\41715ETF04\004	Radiated Emissions, Hopping all frequencies (2.4355 GHz to 2.4405 GHz) Section 15.247 (b)
GPH\41715ETF04\005	Radiated Emissions, Hopping all frequencies (2.39 GHz to 2.41 GHz) Section 15.247 (c)

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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LVLOFF



Date 05.Dec.'00 Time 14:20:58

Ref.Lvl

13.60 dBm

Marker

7.03 dBm

2.4371 GHz

Res.Bw

TG.Lvl

CF.Stp

100 kHz [imp]

0 dBm

10.000 MHz

Vid.Bw

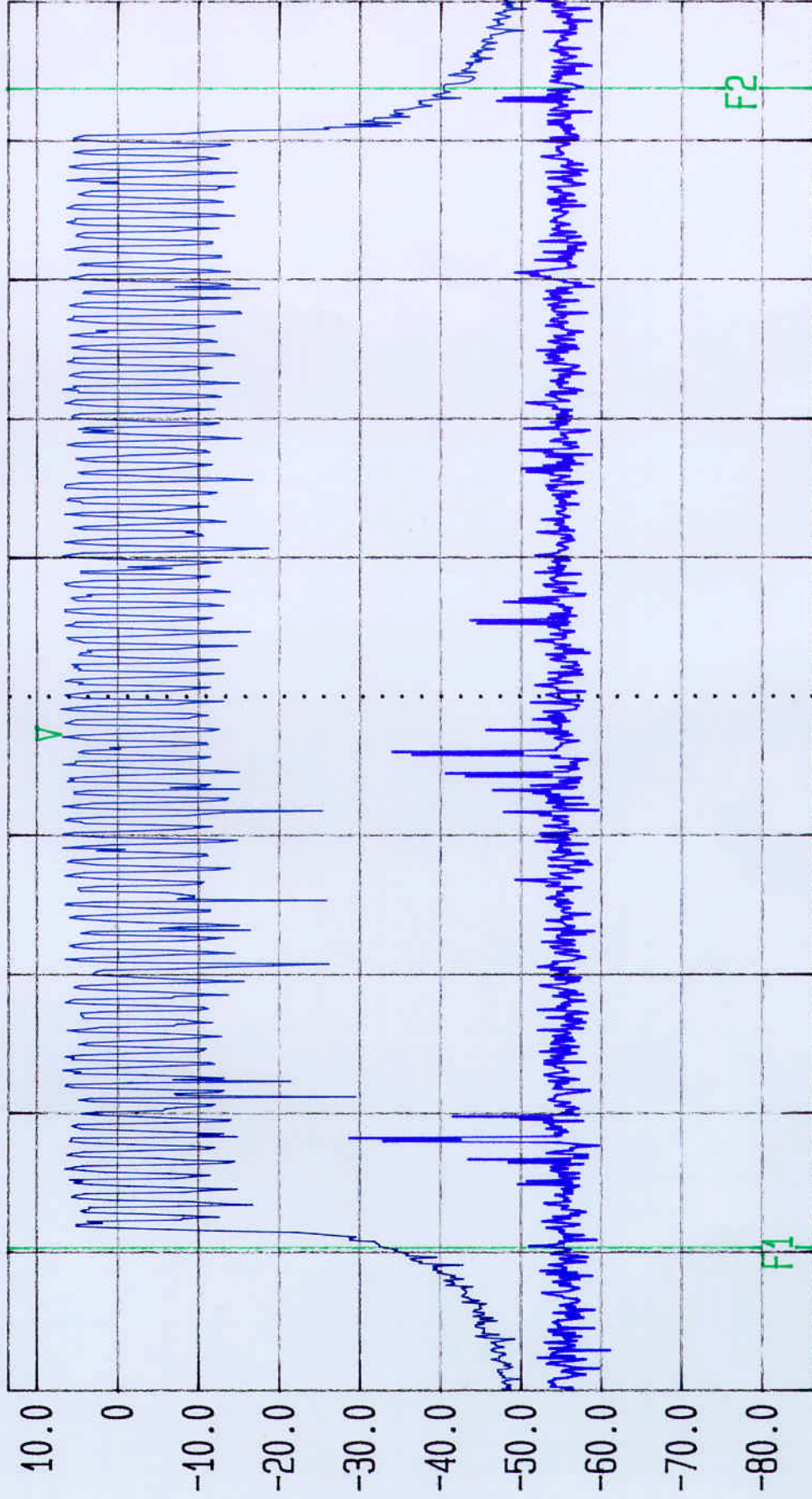
RF.Att

Unit

1 MHz

10 dB

[dBm]



Start

2.39 GHz

Span

100 MHz

Center

2.44 GHz

Sweep

80 ms

Stop

2.49 GHz

Tested By RFI for RED M.

Spec: FCC Part 15.247 (a)

EUT: 3000AS

Opcond: Hopping all Frequencies

GPH: 41715/04/04/001

ENG: PG



LVLOFF

Date 05.Dec.'00 Time 14:32:14

Ref.Lvl Delta

13.60 dBm

0.71 dB

998.9 kHz

Res.Bw

TG.Lvl

CF.Stp

10 kHz [imp]

Off

239.754 kHz

Vid.Bw

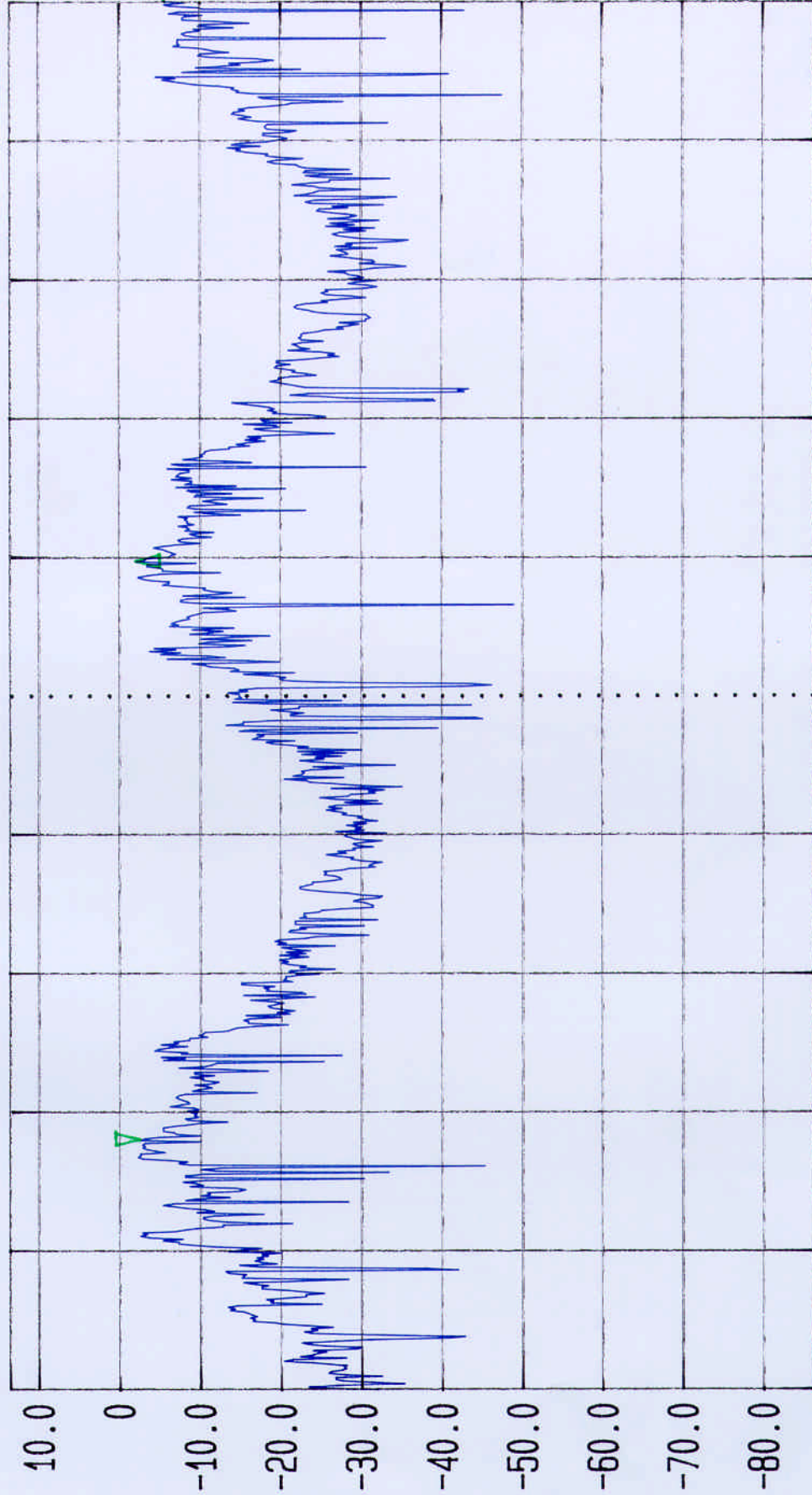
RF.Att

Unit

100 kHz

10 dB

[dBm]



Start

2.438577451 GHz

Span

2.39754 MHz

Center

2.439776225 GHz

Sweep

160 ms

Stop

2.440974999 GHz

Tested By RFI for RED M.

Spec: FCC Part 15.247 (a)

EUT: 3000AS

Opcond: Hopping all Frequencies

GPH:

41715/04/04/002

ENG: PG



LVLOFF

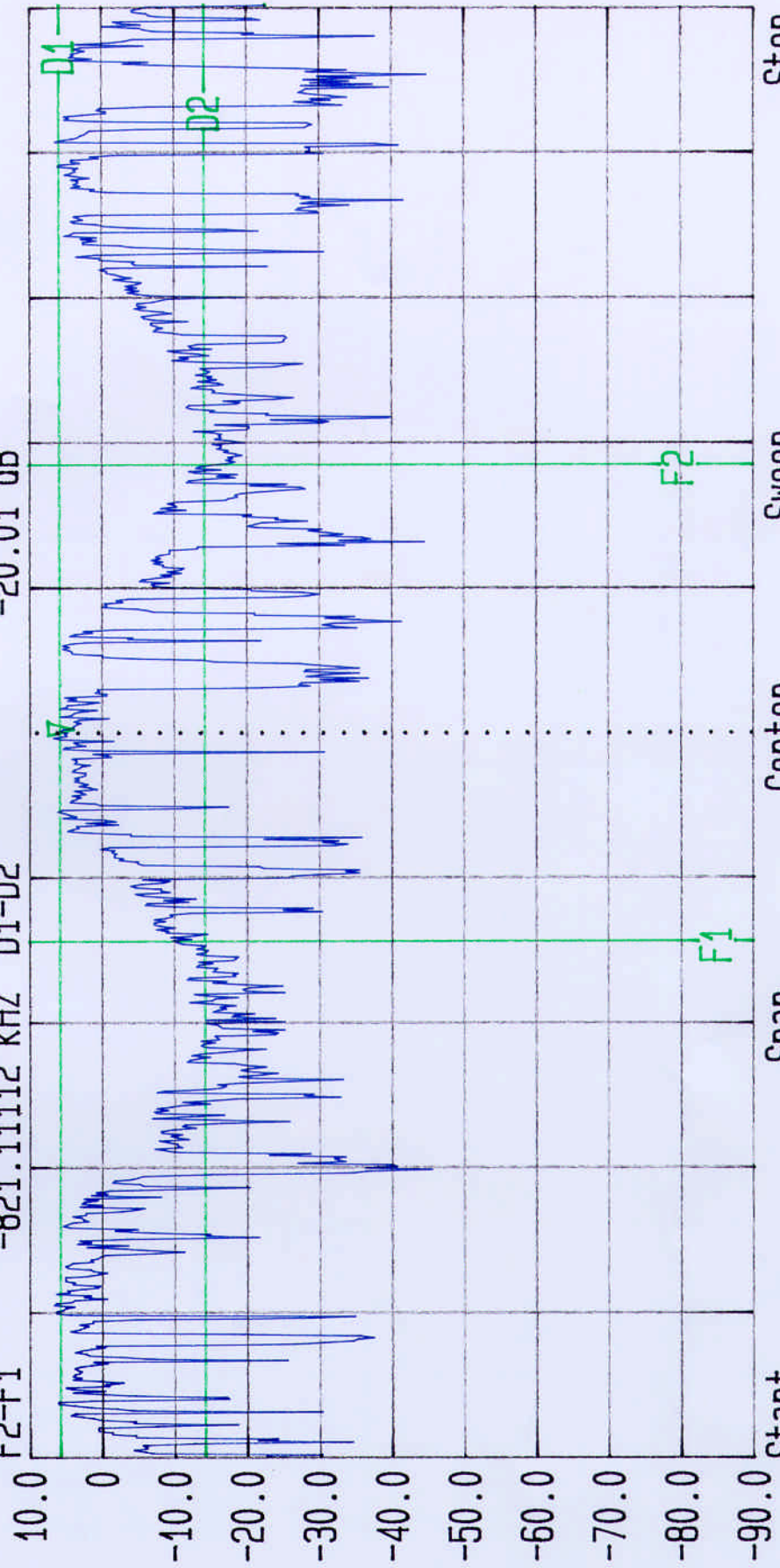
Date 05.Dec.'00 Time 15:20:45

Ref.Lvl 10.00 dBm
Marker 4.04 dBm
2.438005 GHz

Res.Bw 100 kHz [imp]
TG.Lvl Off
CF.Stp 250.000 kHz

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

F1 2.437638888888 GHz D1
F2 2.438460000000 GHz D2
F2-F1 -821.11112 kHz D1-D2



Start 2.43675 GHz Span 2.5 MHz Center 2.438 GHz Sweep 20 ms Stop 2.43925 GHz
Tested By RFI for RED M. GPH: 41715/04/04/003
Spec: FCC Part 15.247 (a) Opcond: Hopping all Frequencies ENG: PG



LVLOFF

Date 05.Dec.'00 Time 15:27:22

Ref.Lvl 10.00 dBm

Marker 7.34 dBm

2.438166 GHz

3 MHz

Vid.Bw

1 MHz [imp]

Res.Bw

7.34 dBm

OFF

10.00 dBm

10 dB

[dBm]

Unit

RF.Att

Unit

F1

OFF

OFF

OFF

D1

D2

D1-D2

7.34 dBm

-12.66 dBm

-20.00 dB

10.0

0

-10.0

-20.0

-30.0

-40.0

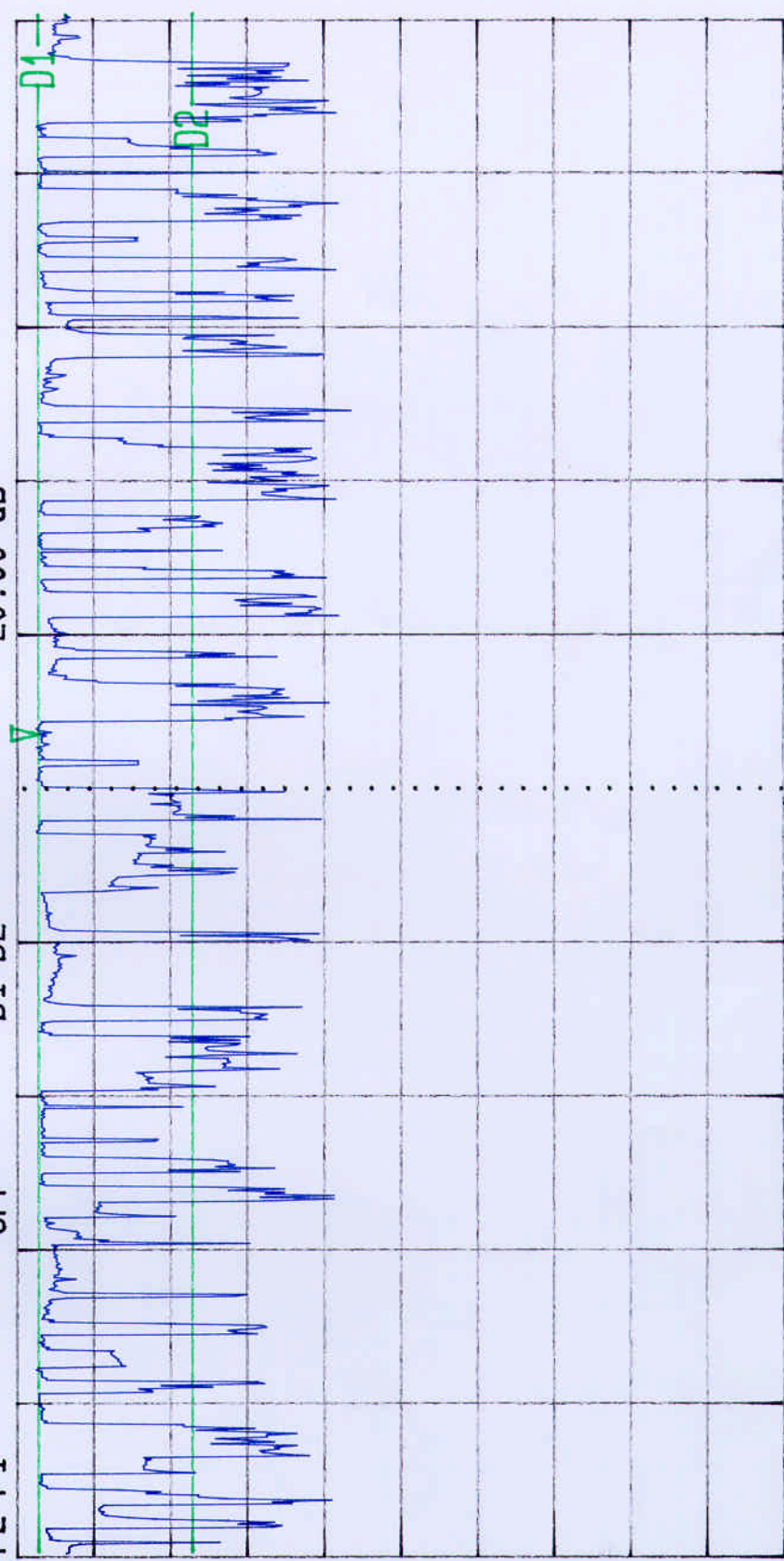
-50.0

-60.0

-70.0

-80.0

-90.0



Start

2.4355 GHz

Span

5 MHz

Center

2.438 GHz

Sweep

20 ms

Stop

2.4405 GHz

Tested BY RFI for RED M.

Spec: FCC Part 15.247 (b)

EUT: 3000AS

GPH: 41715/04/04/004

ENG: PG

Opcond: Hopping all Frequencies

LVLOFF



Date 05.Dec.'00 Time 15:33:10

Ref.Lvl 10.00 dBm

Marker 6.30 dBm

2.40186 GHz

Res.Bw 1 MHz [imp]

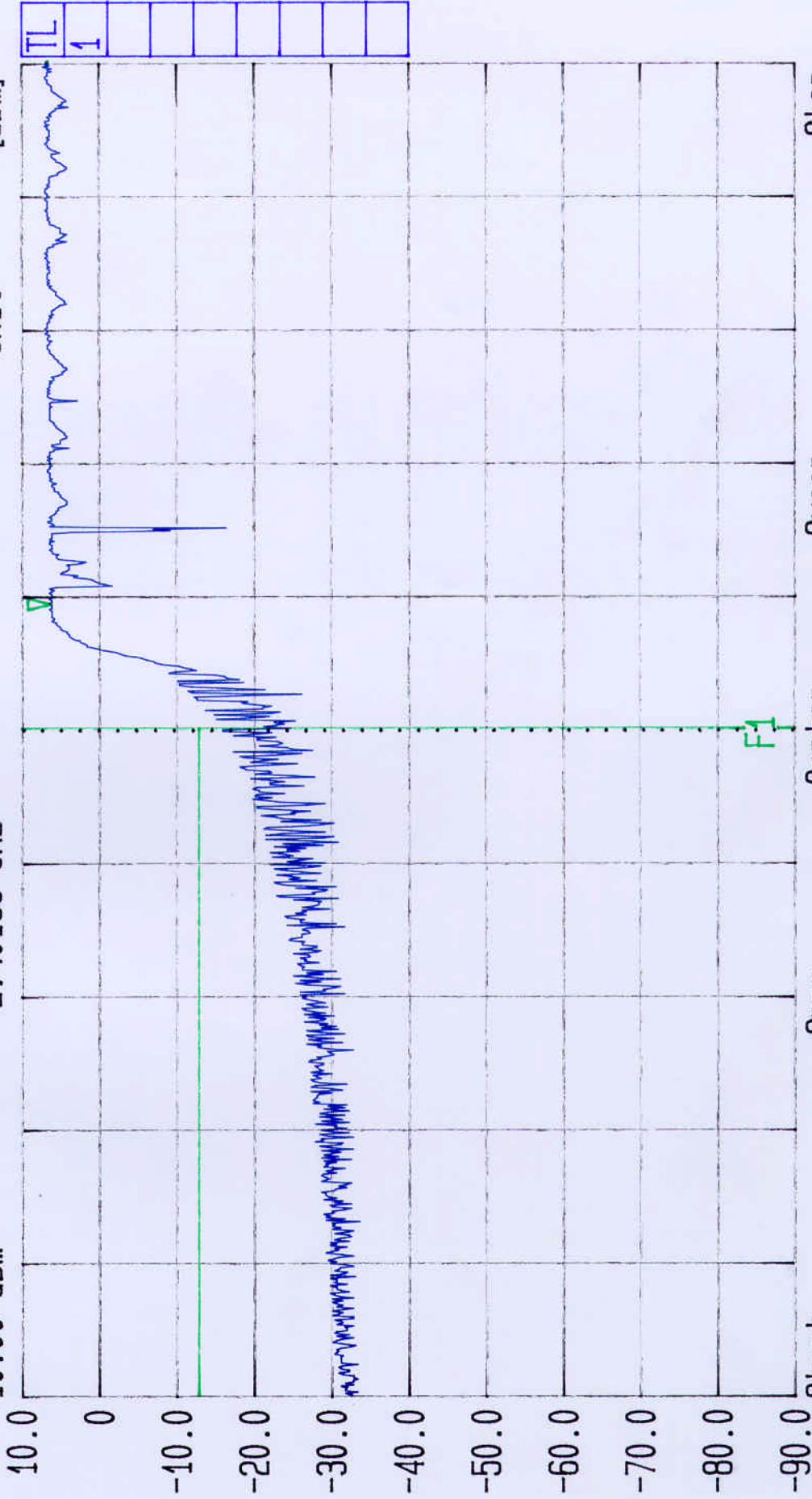
TG.Lvl off

CF.Stp 2.000 MHz

Vid.Bw 3 MHz

RF.Att 10 dB

Unit [dBm]



Start 2.39 GHz

Span 20 MHz

Center 2.4 GHz

Sweep 20 ms

Stop 2.41 GHz

Tested By RFI for RED M.
Spec: FCC Part 15.247 (c)

EUT: 3000AS
Opcond: Hopping all Frequencies

GPH: 41715/04/04/005
ENG: PG