

Oct. 14, 2003

**FCC ID# H8NWLL220C**

**Applicant:** Askey Computer Corp.  
**Correspondence Reference Number:** 25430  
**731 Confirmation Number:** EA 441634

A3) Details of power measurement made for SAR. Are these peak or average? What is BW of measurement equipment?

**Response:**

There is a typo in the caption of Table 1 on p. 12 of the SAR report . The caption should read " Peak conducted RF power" rather than Average conducted RF power. The procedure for conducted output power measurements used the channel power function of the Spectrum Analyzer Model FSEK 30. Attach an appendix giving the power outputs for various channels.

## Appendix

### PEAK TRANSMIT POWER MEASUREMENT

#### LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

**NOTE:** Where B is the 26dB emission bandwidth in MHz.

#### TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

**NOTE:** The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

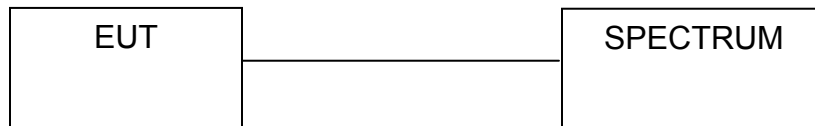
## TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

## DEVIATION FROM TEST STANDARD

No deviation

## TEST SETUP



## EUT OPERATING CONDITIONS

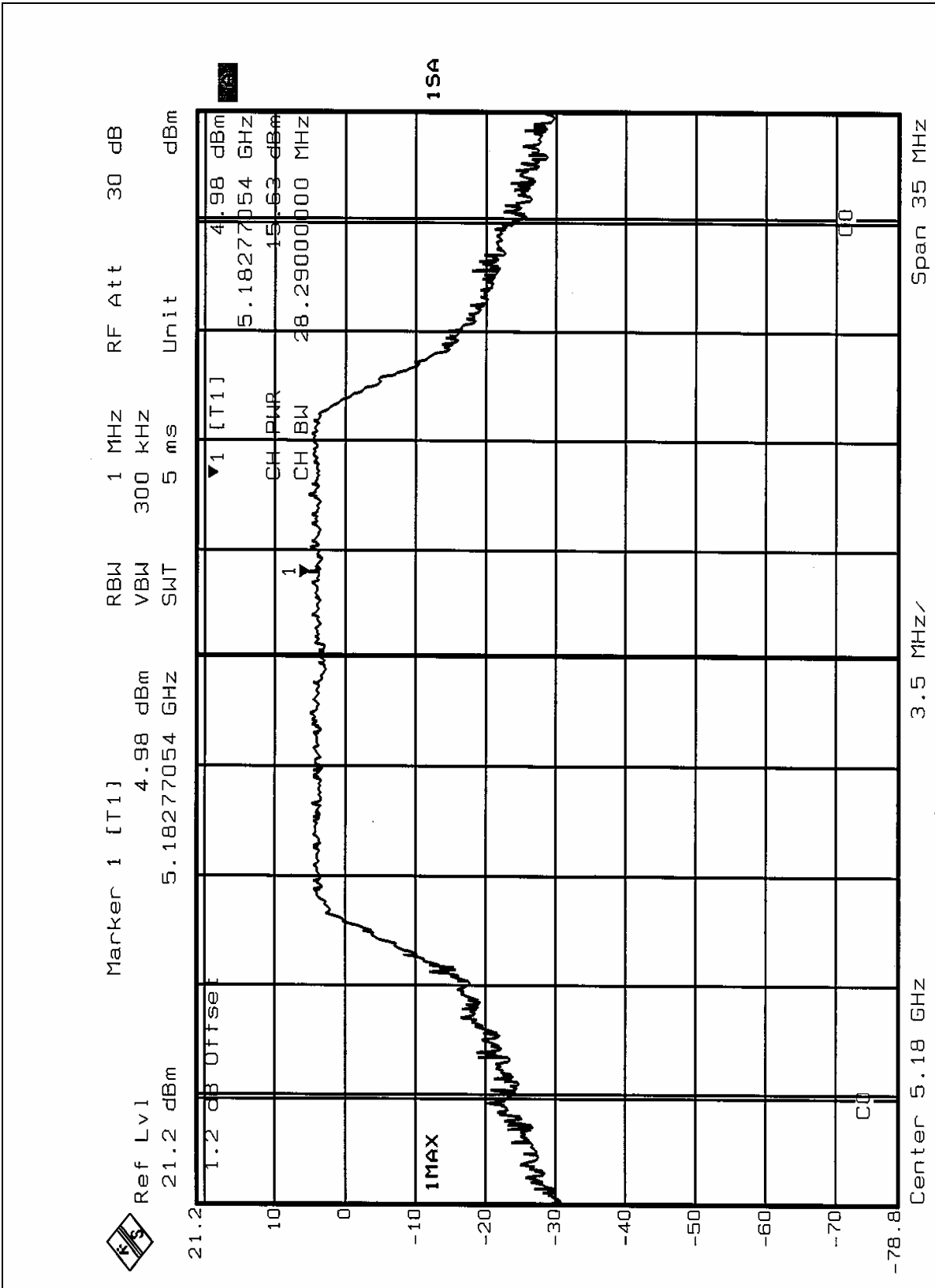
The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

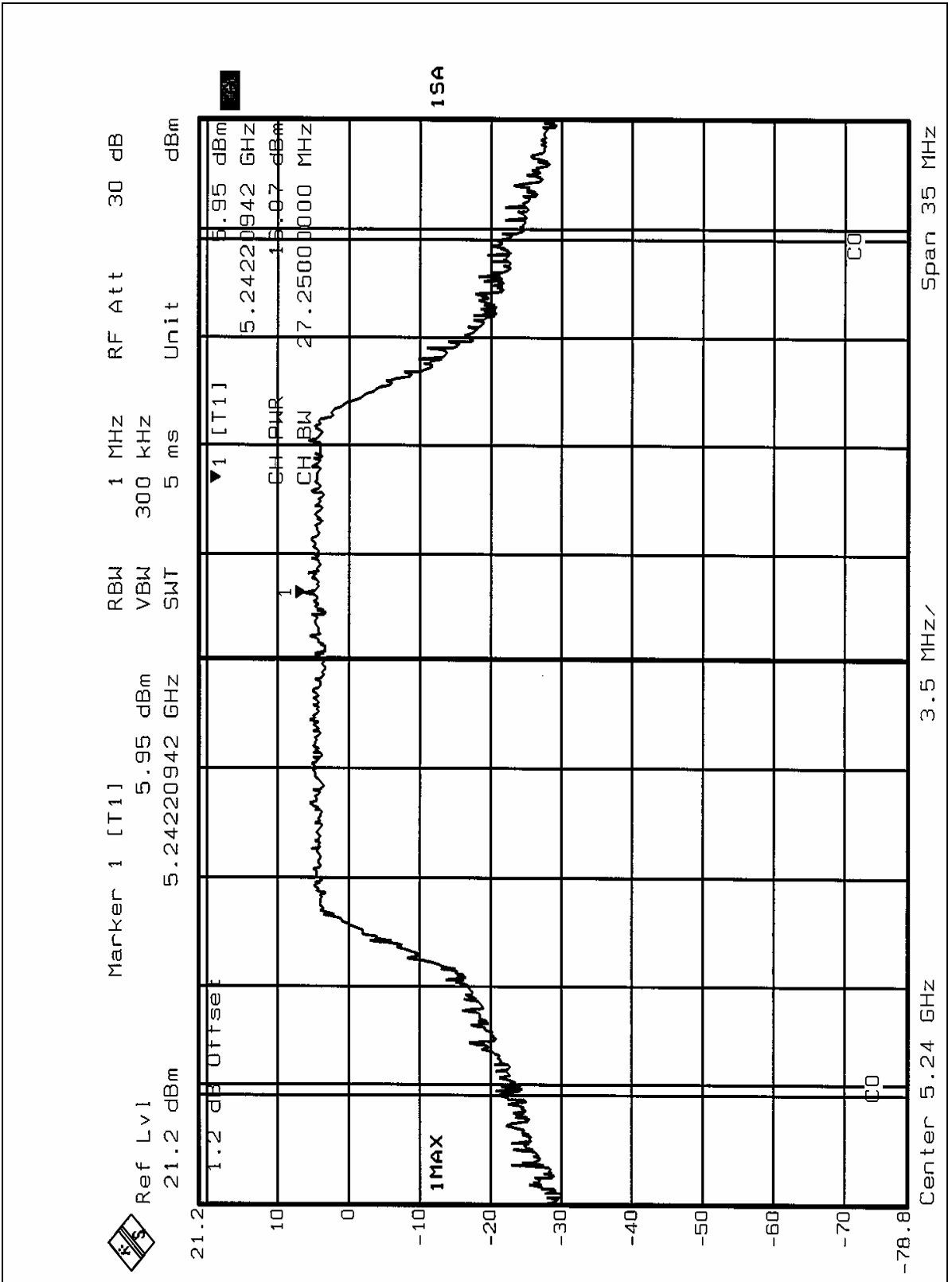
TEST RESULTS – NORMAL MODE

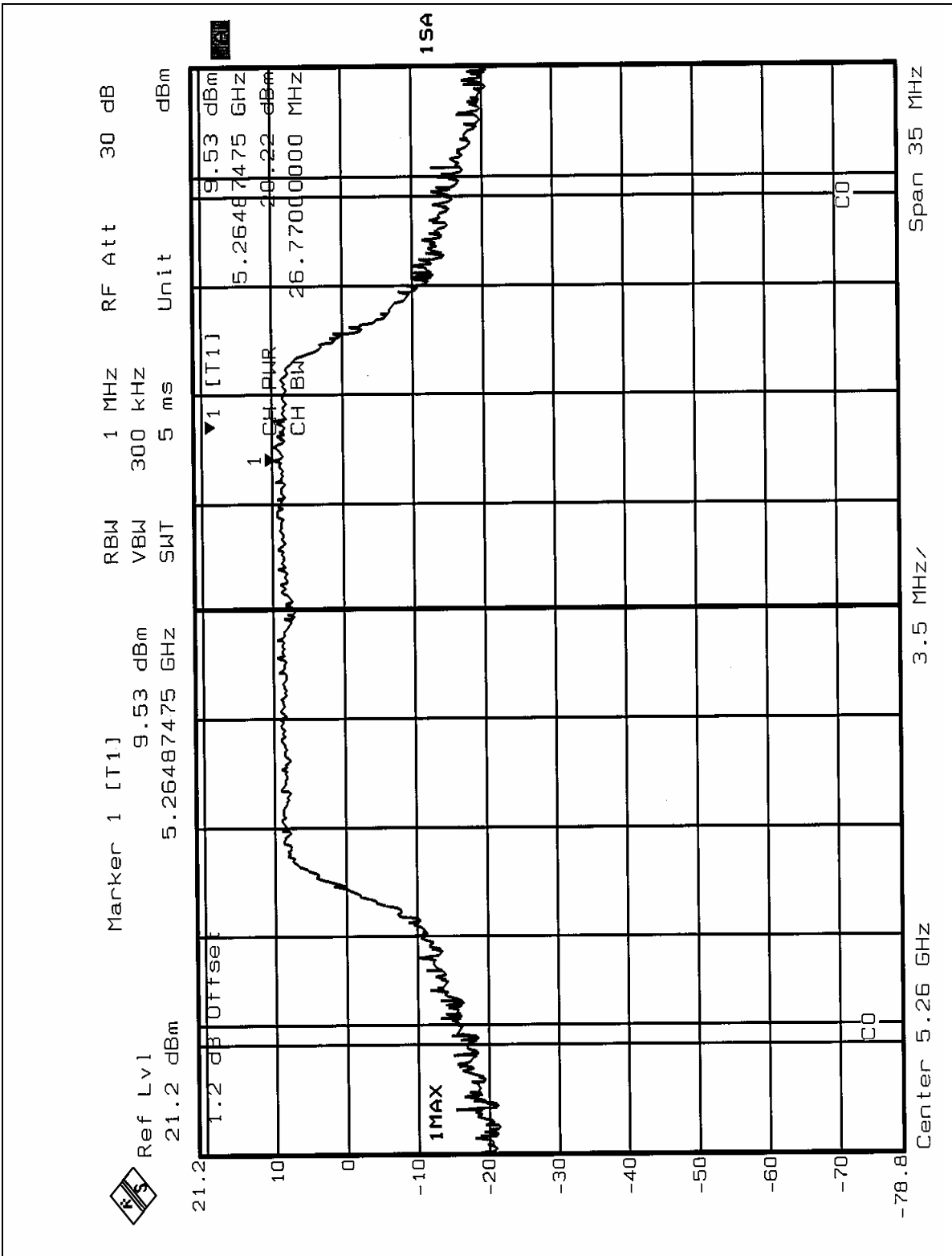
<b>EUT</b>	2.4GHz/5GHz Mini - PCI Card	<b>MODEL</b>	WLL220
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 67%RH, 991hPa	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Ansen Lei		

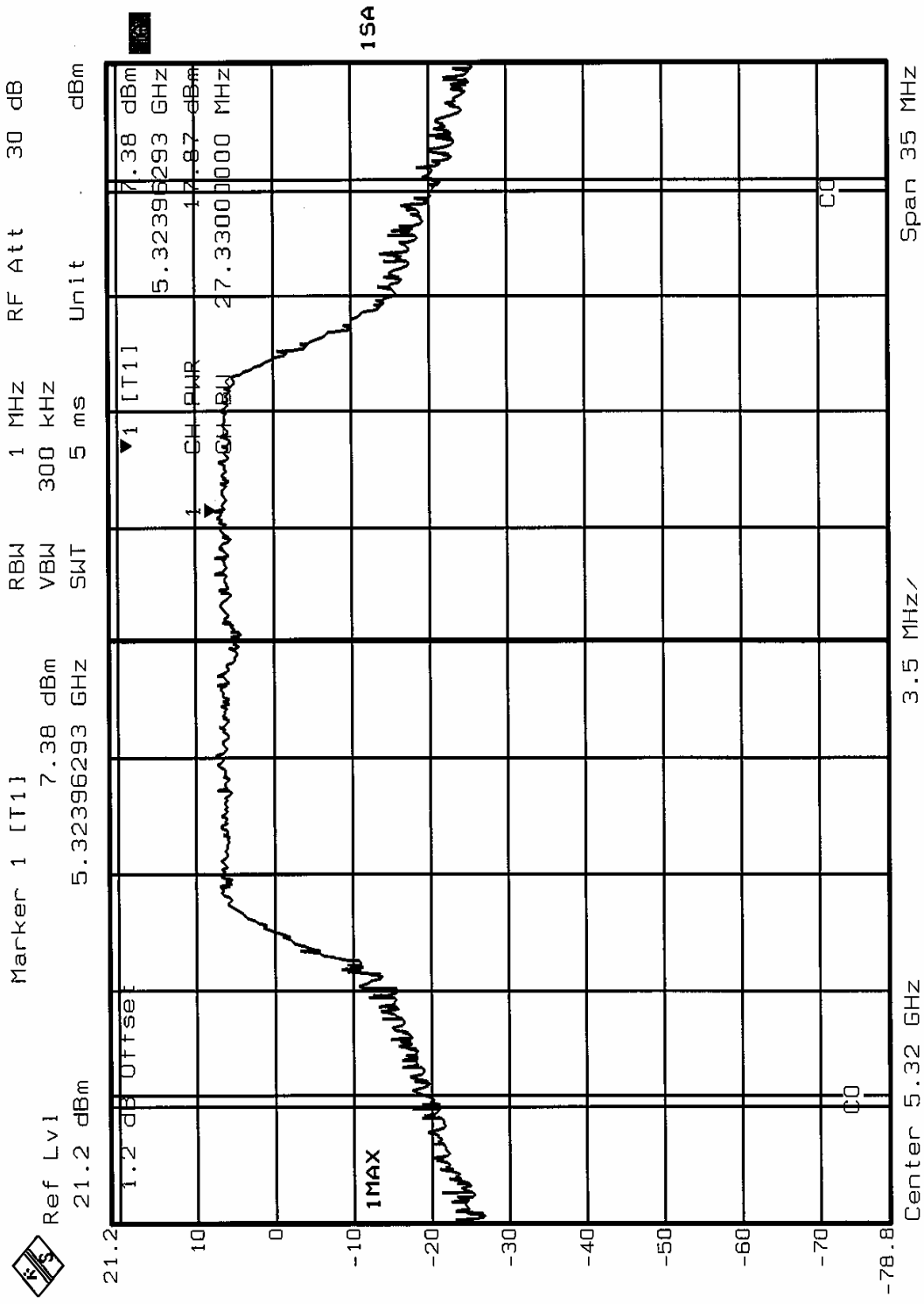
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>26dBc Occupied Bandwidth (MHz)</b>	<b>PASS/FAIL</b>
1	5180	15.63	17.00	28.30	PASS
4	5240	16.07	17.00	27.25	PASS
5	5260	20.22	24.00	26.77	PASS
8	5320	17.87	24.00	27.33	PASS
9	5745	18.92	30.00	27.17	PASS
12	5805	18.33	30.00	27.25	PASS

**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

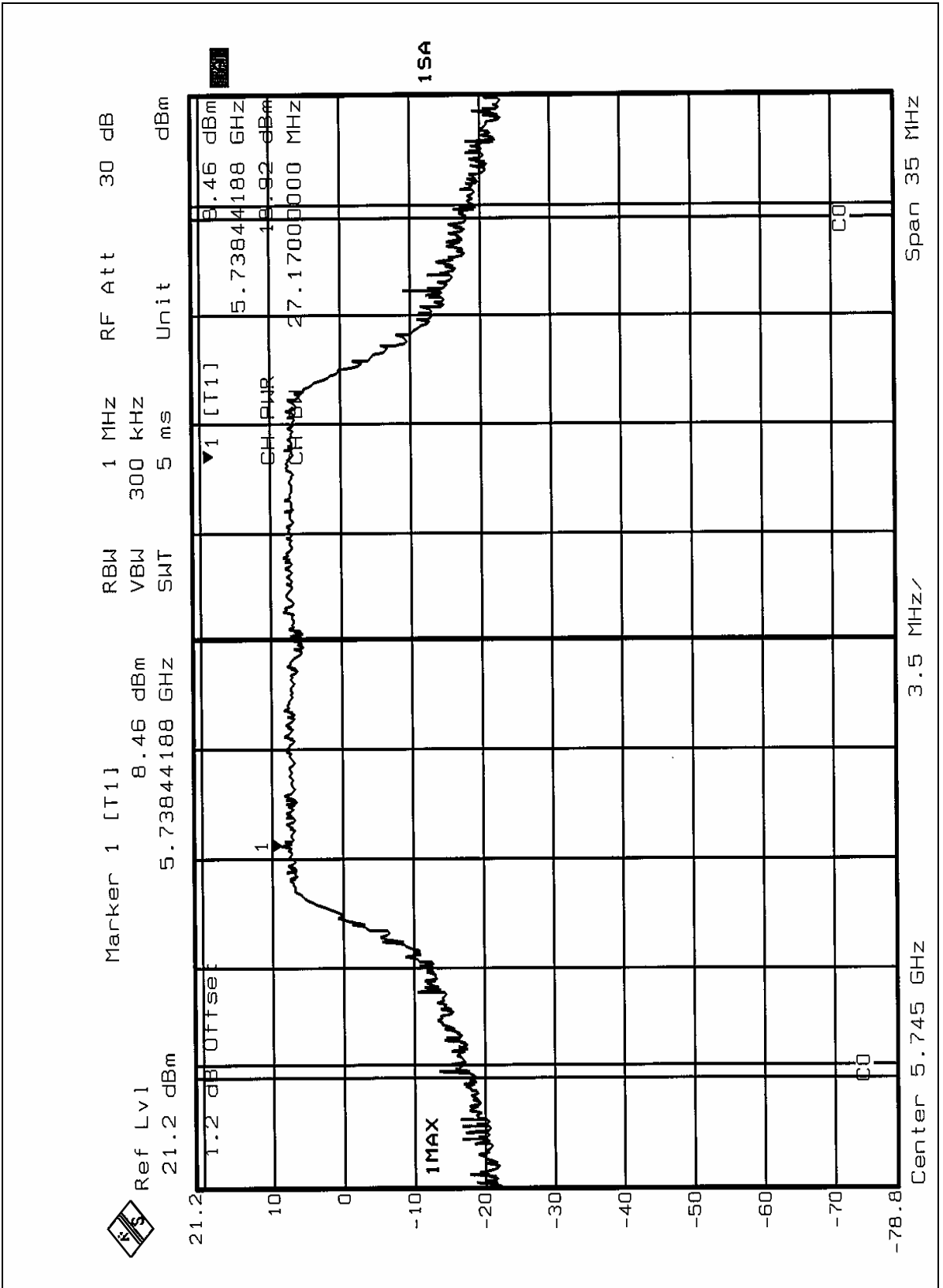


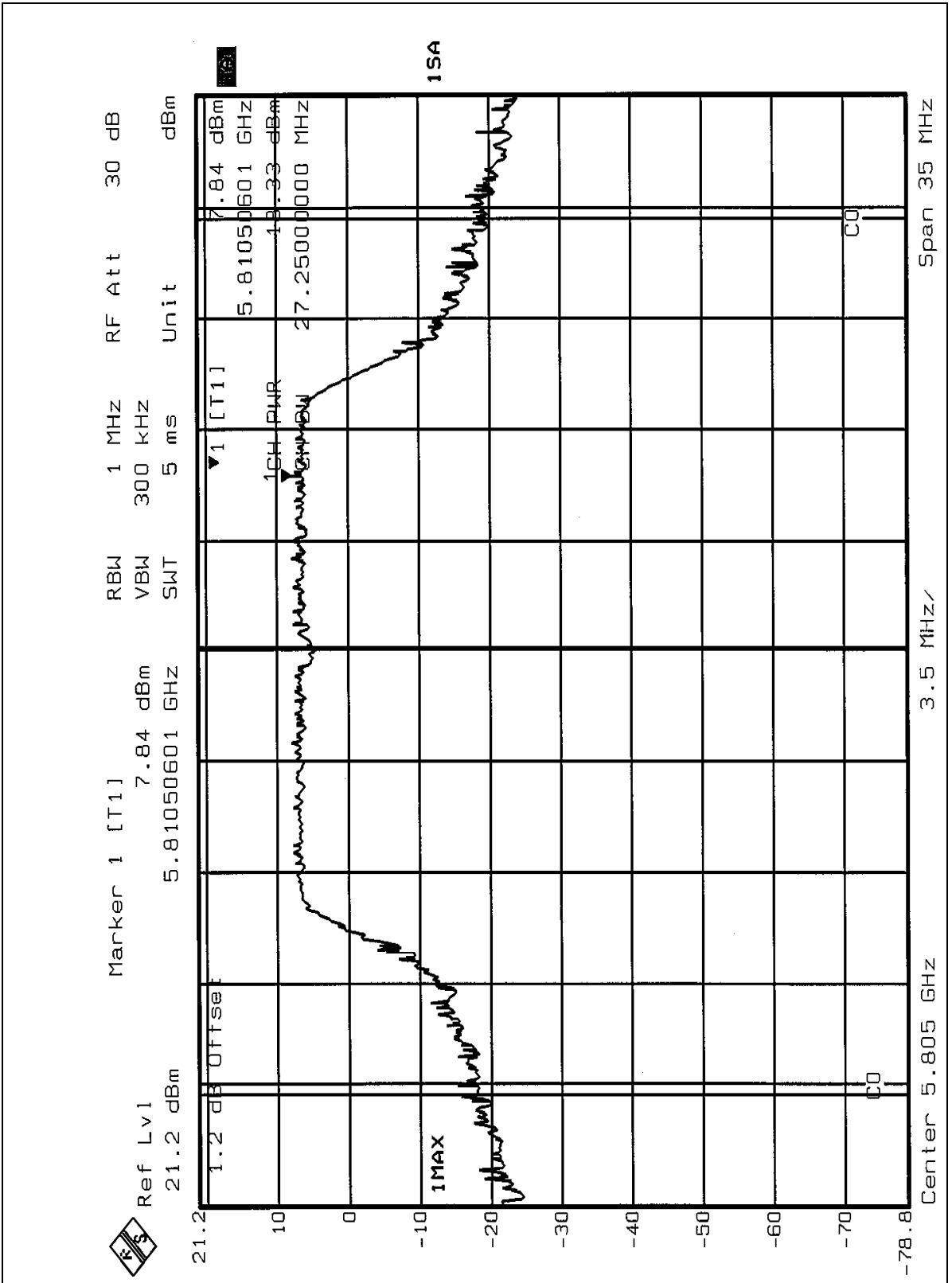




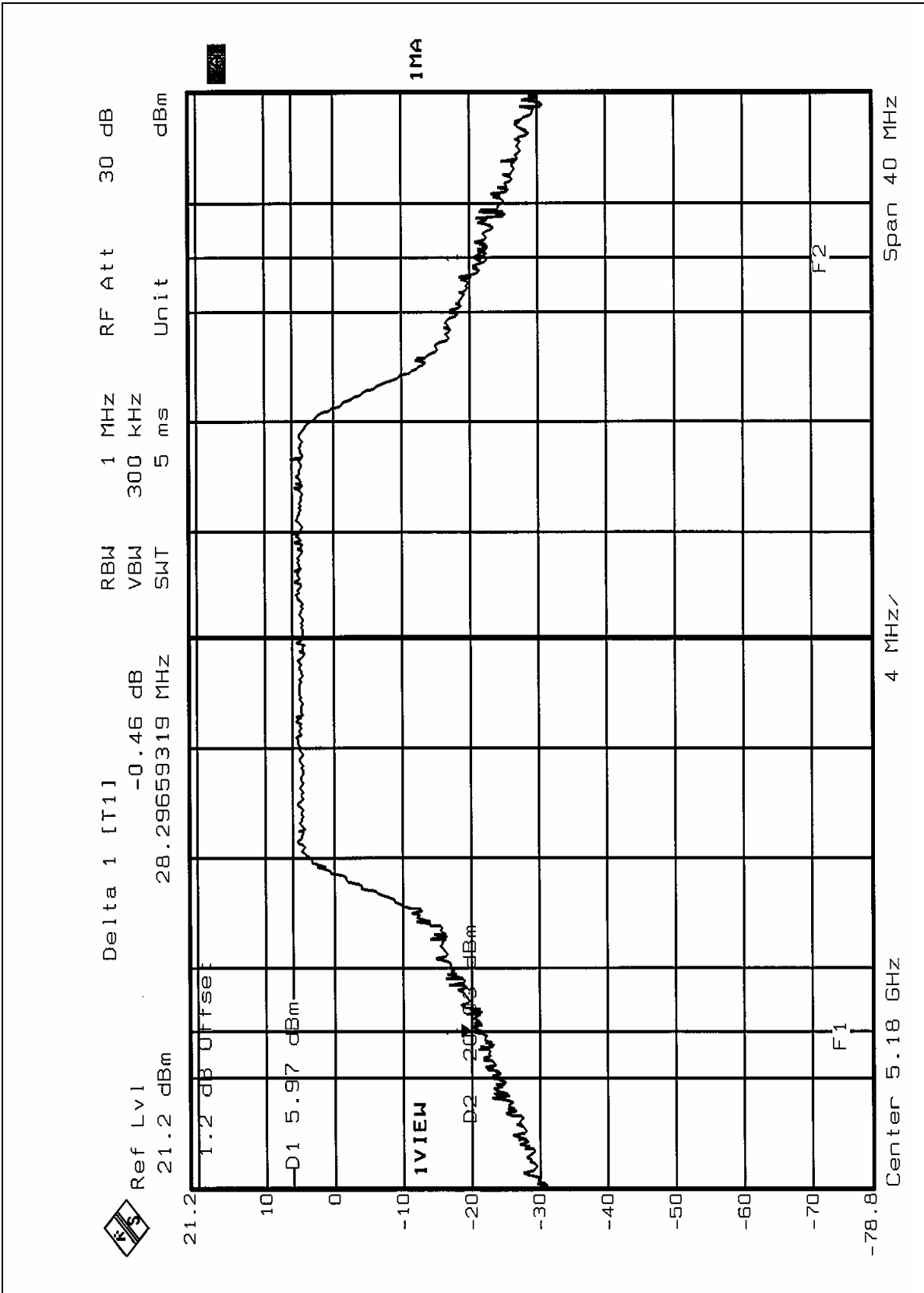


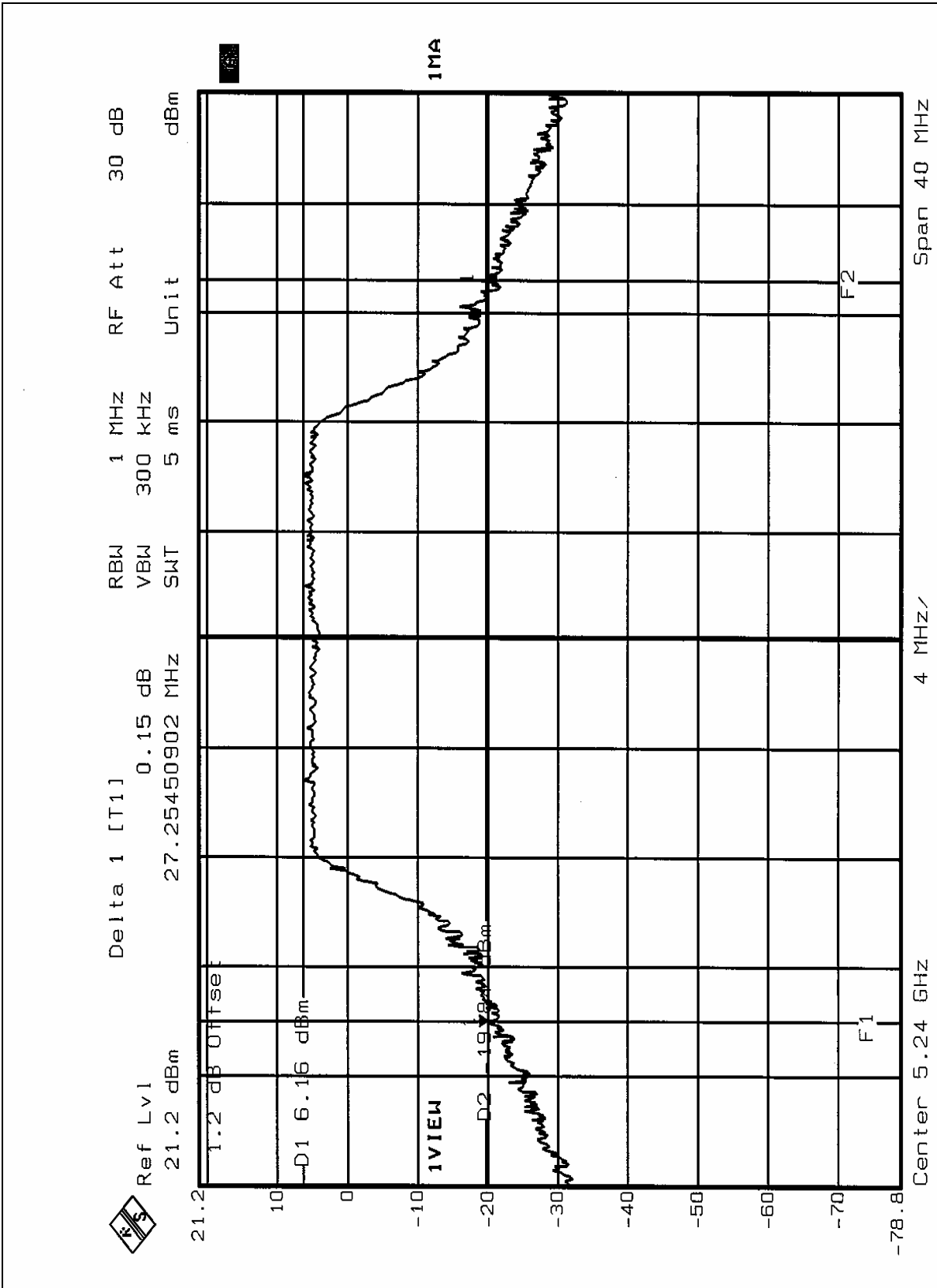


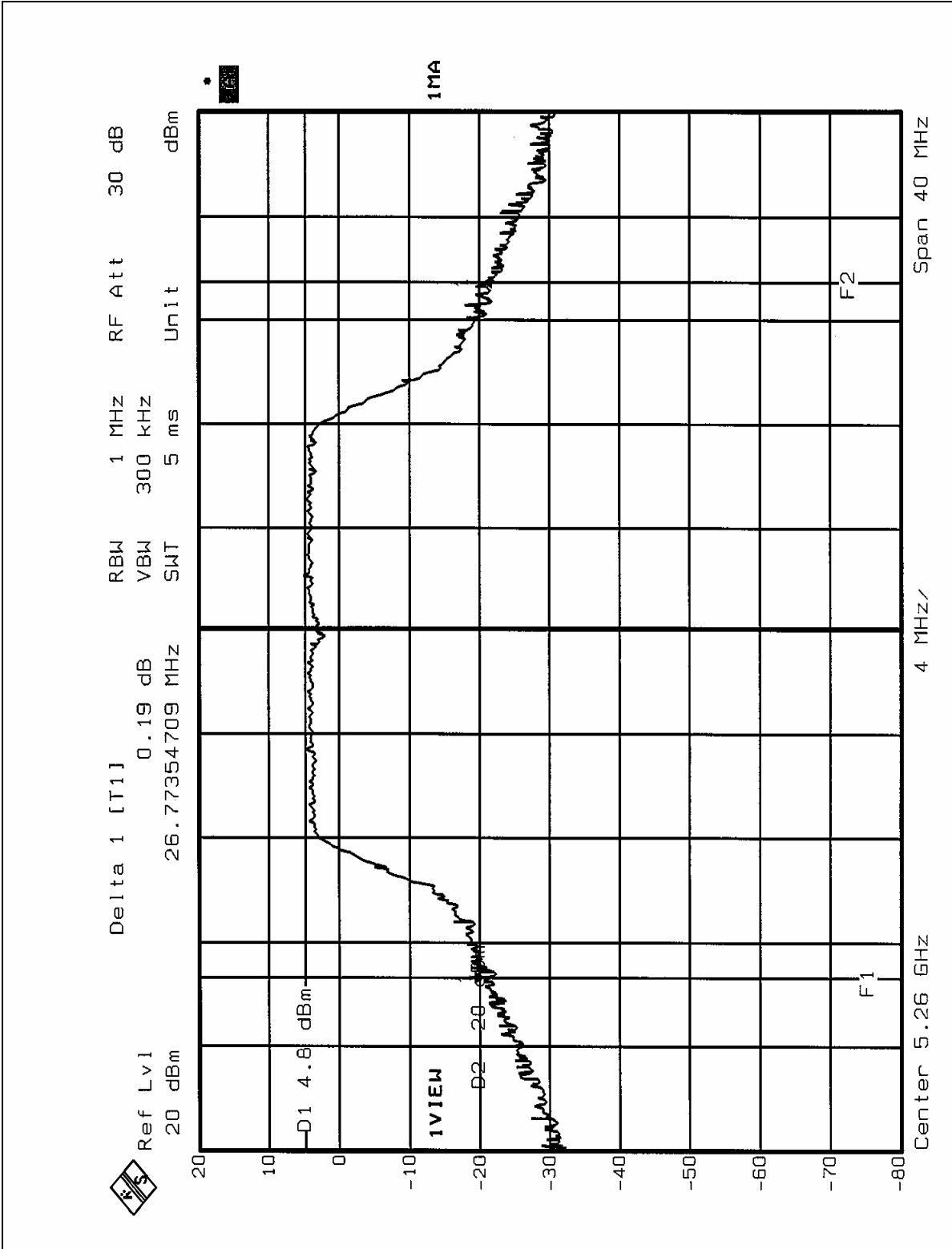


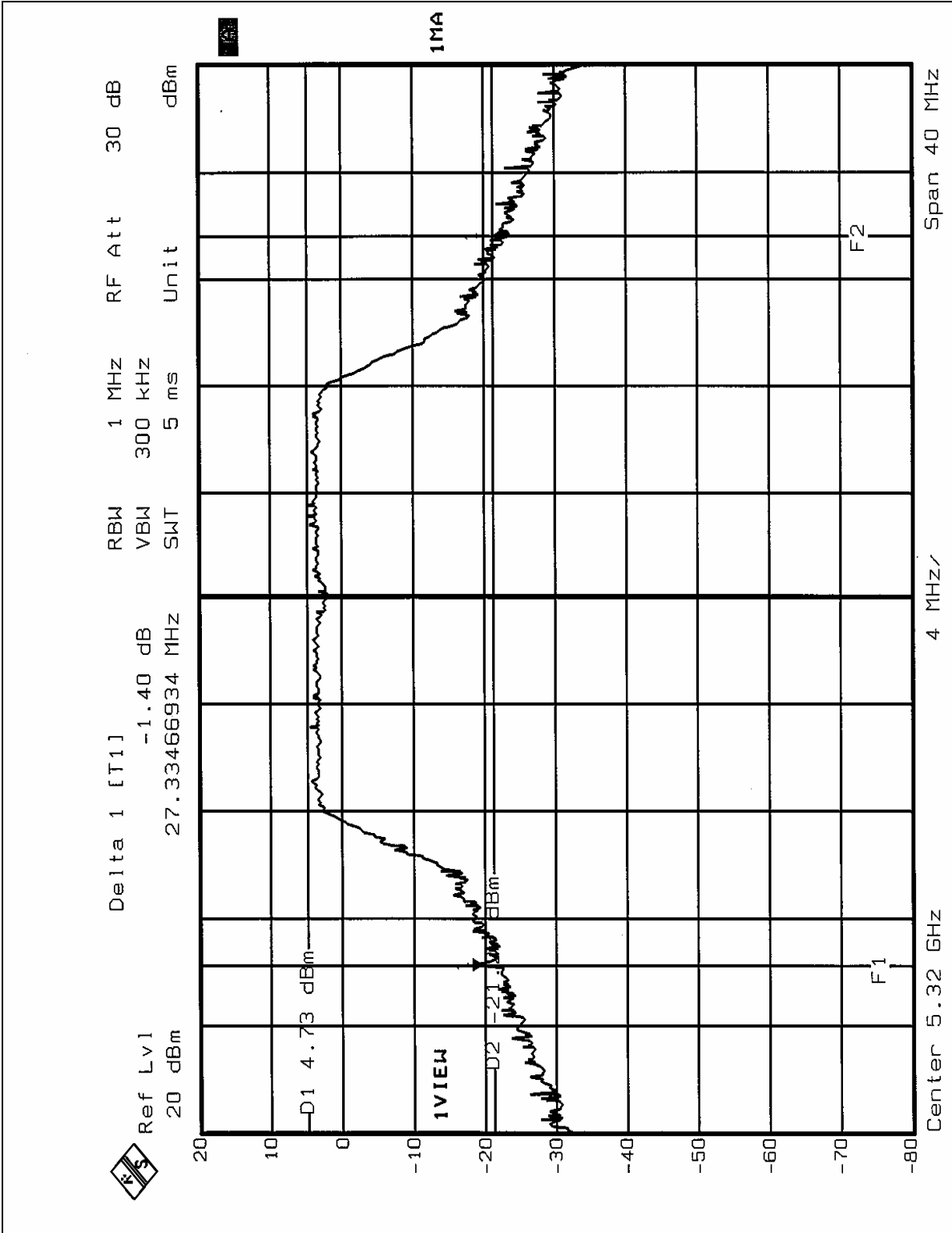


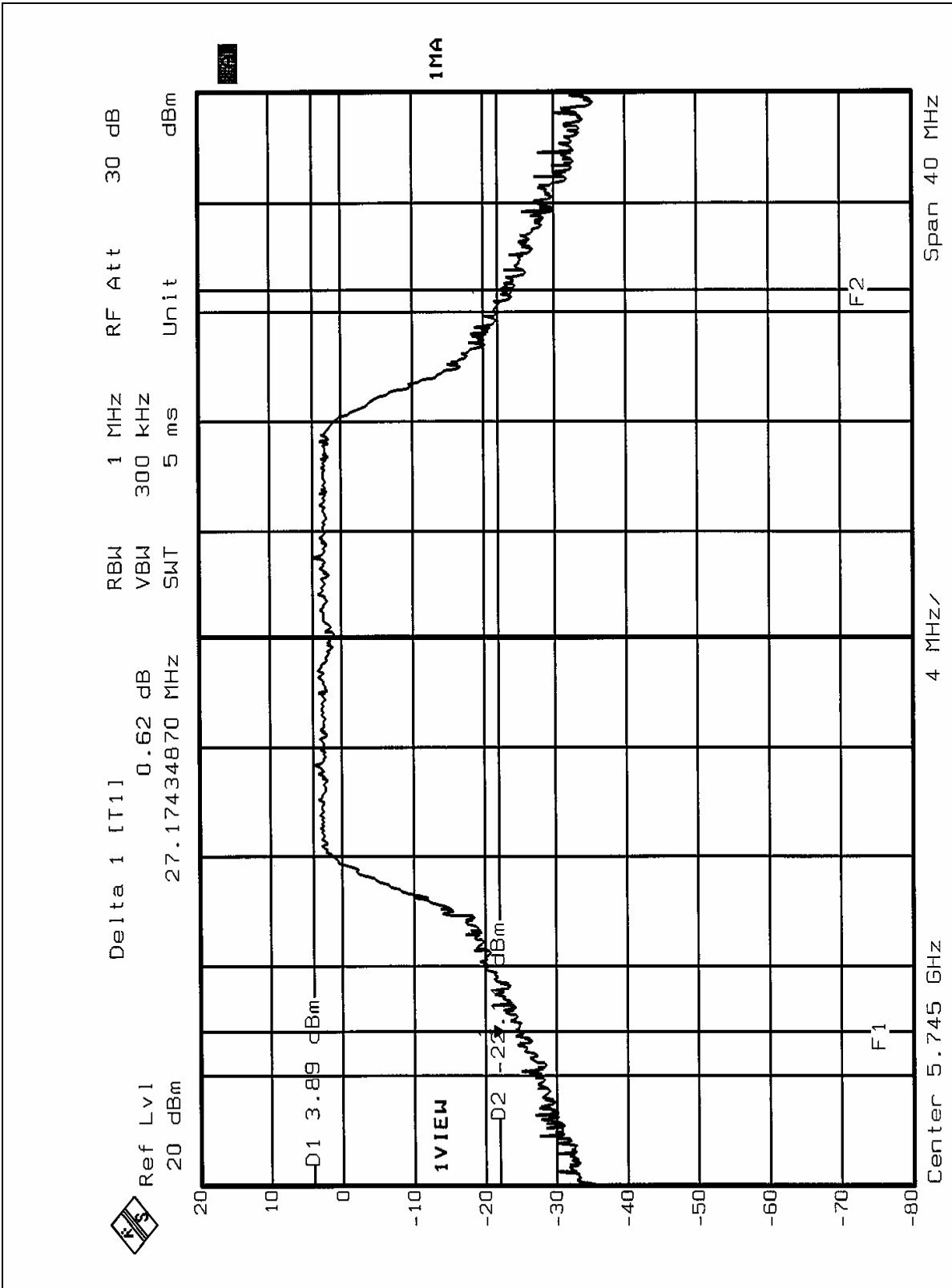
CHANNEL 1

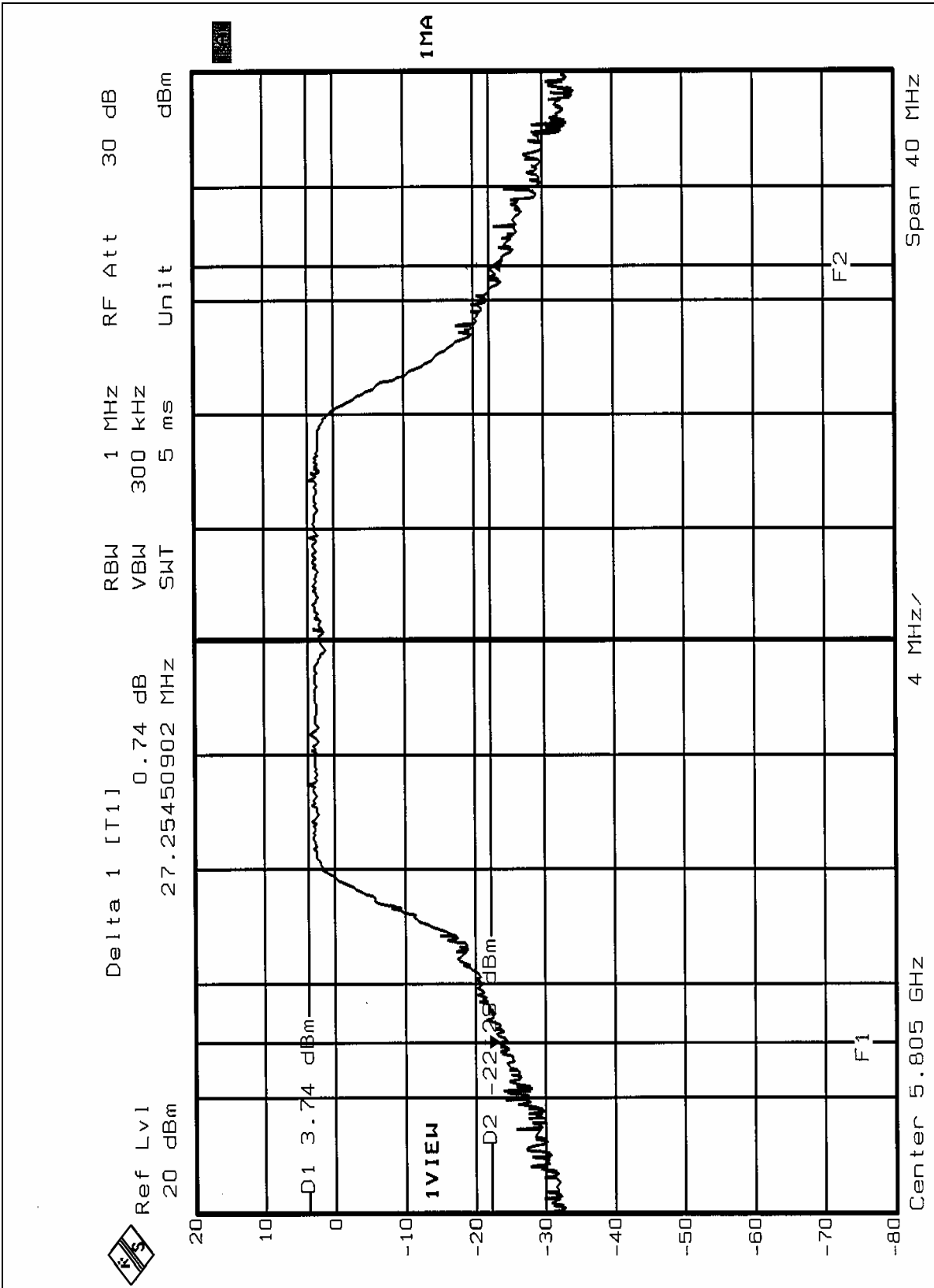












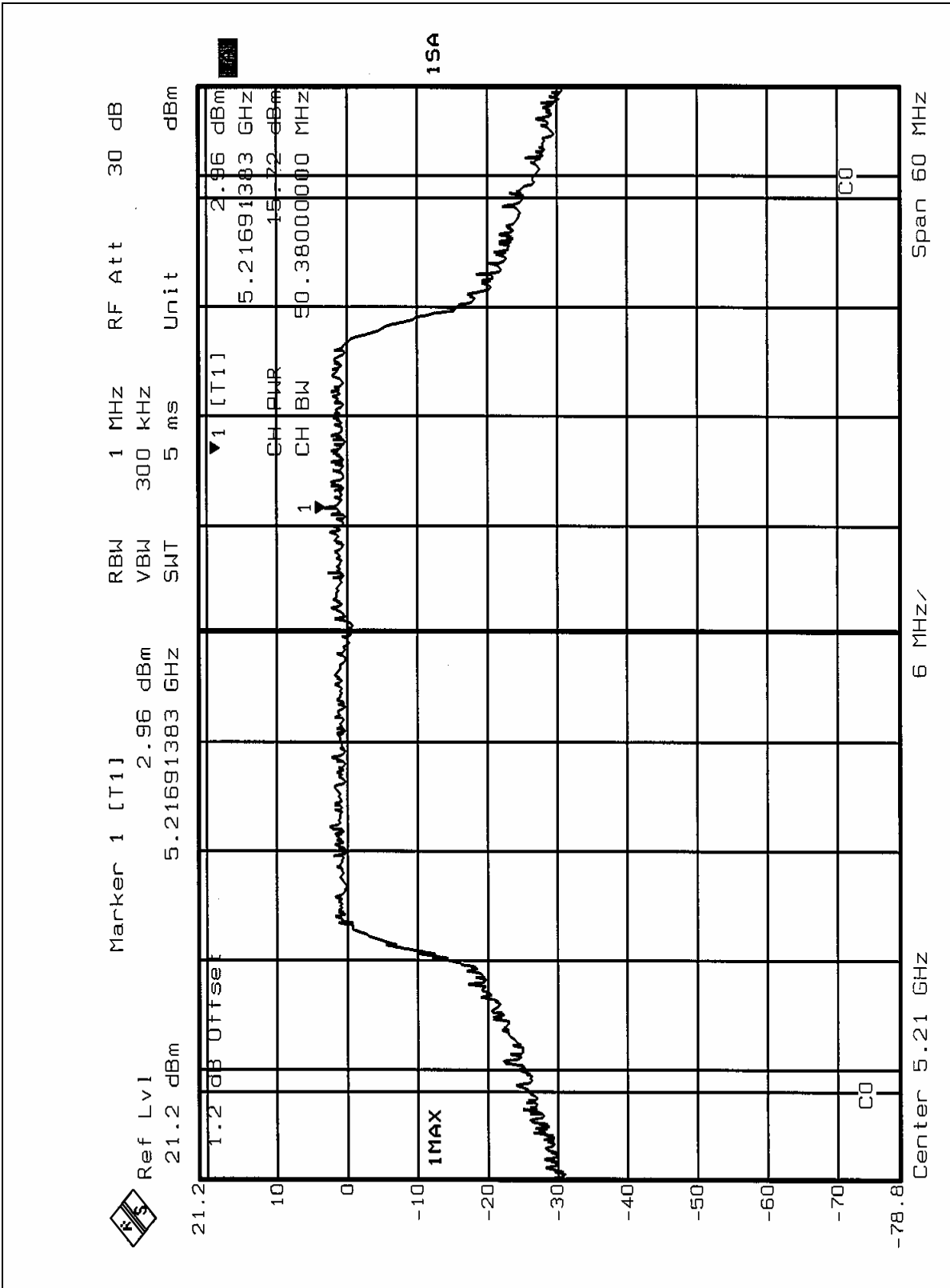


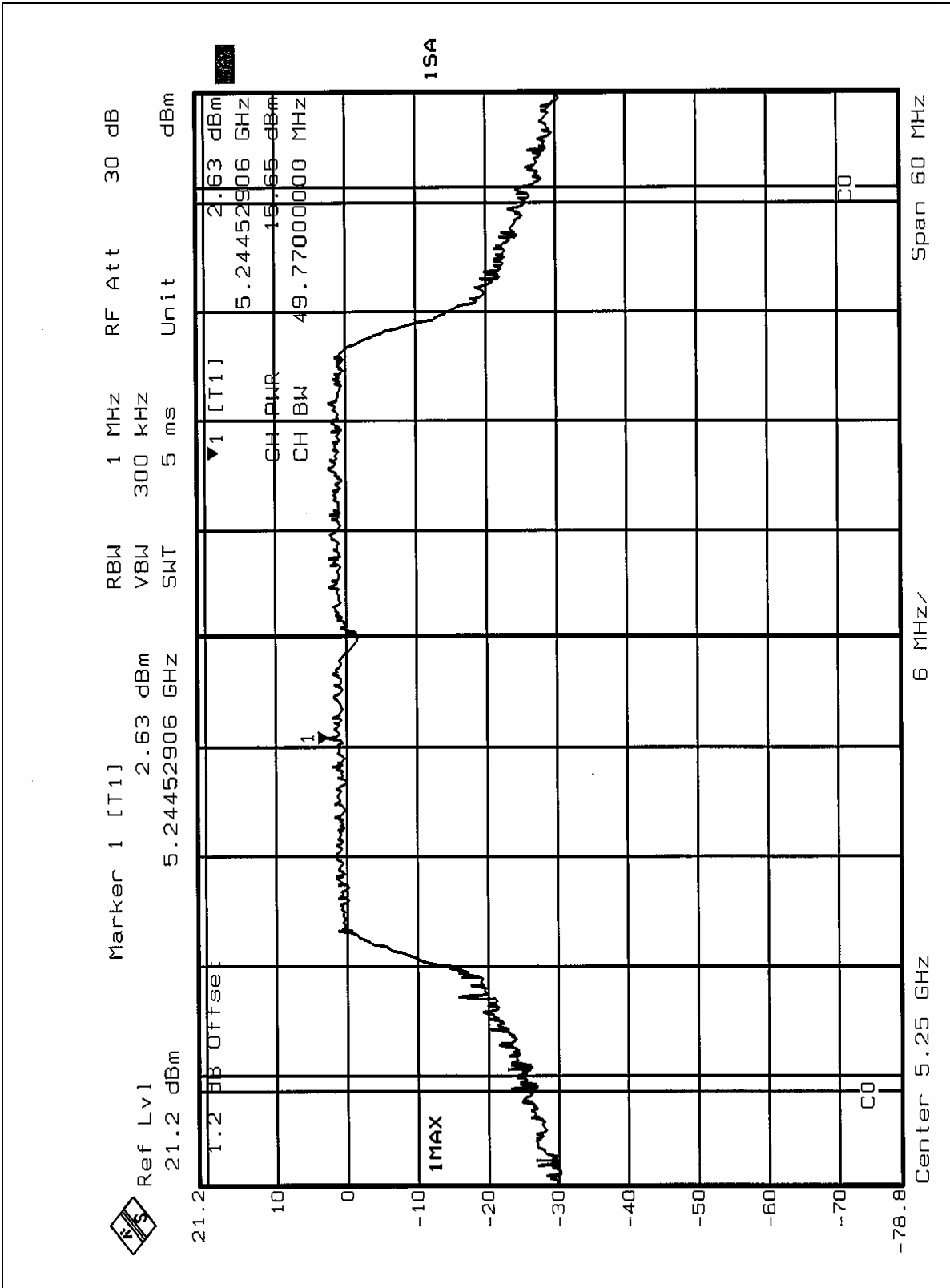
TEST RESULTS – TURBO MODE

<b>EUT</b>	2.4GHz/5GHz Mini - PCI Card	<b>MODEL</b>	WLL220
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 67%RH, 991hPa	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Ansen Lei		

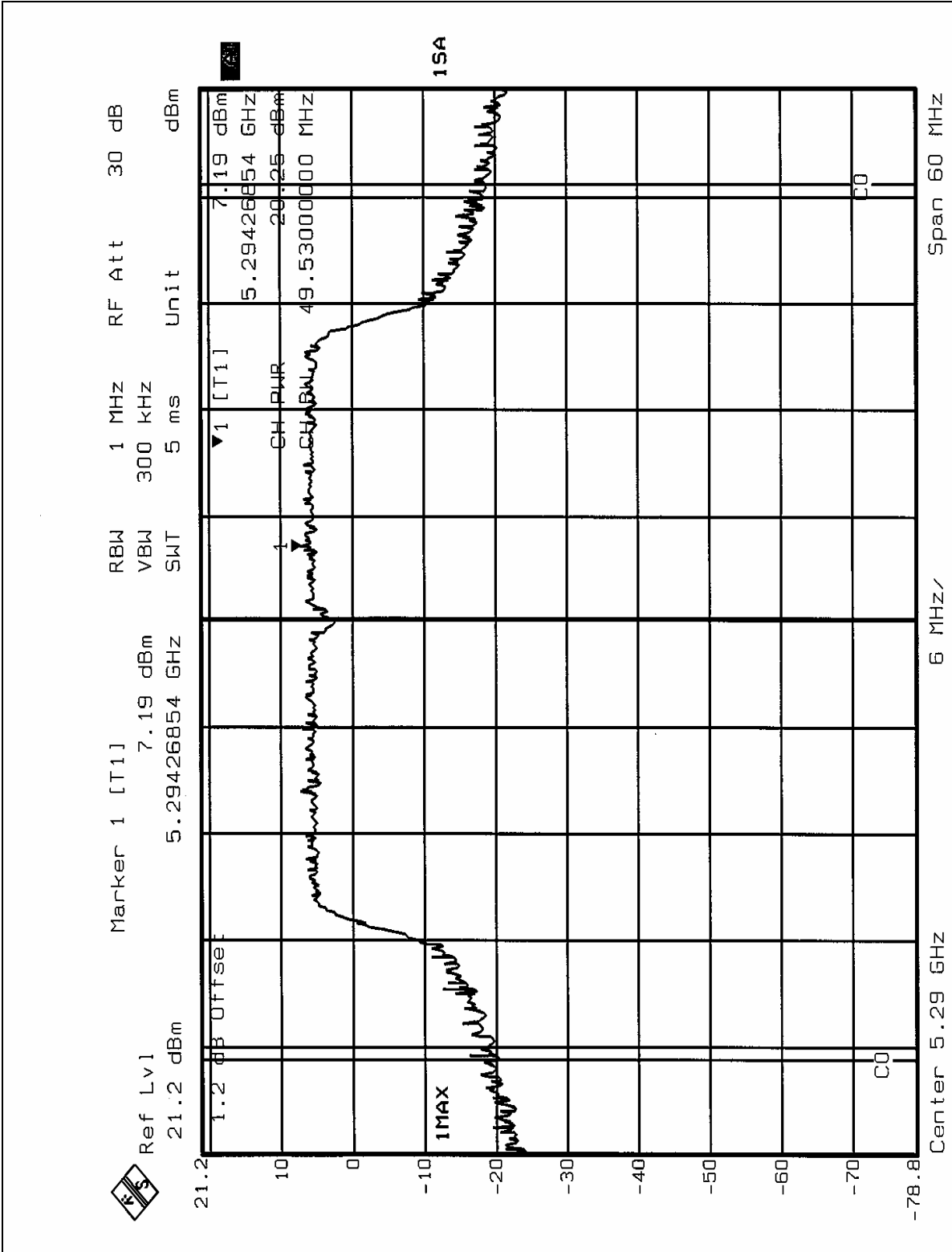
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>26dBc Occupied Bandwidth (MHz)</b>	<b>PASS/FAIL</b>
1	5210	15.72	17.00	50.38	PASS
2	5250	15.65	17.00	49.78	PASS
3	5290	20.25	24.00	49.54	PASS
4	5760	18.88	30.00	48.58	PASS
5	5800	16.28	30.00	48.22	PASS

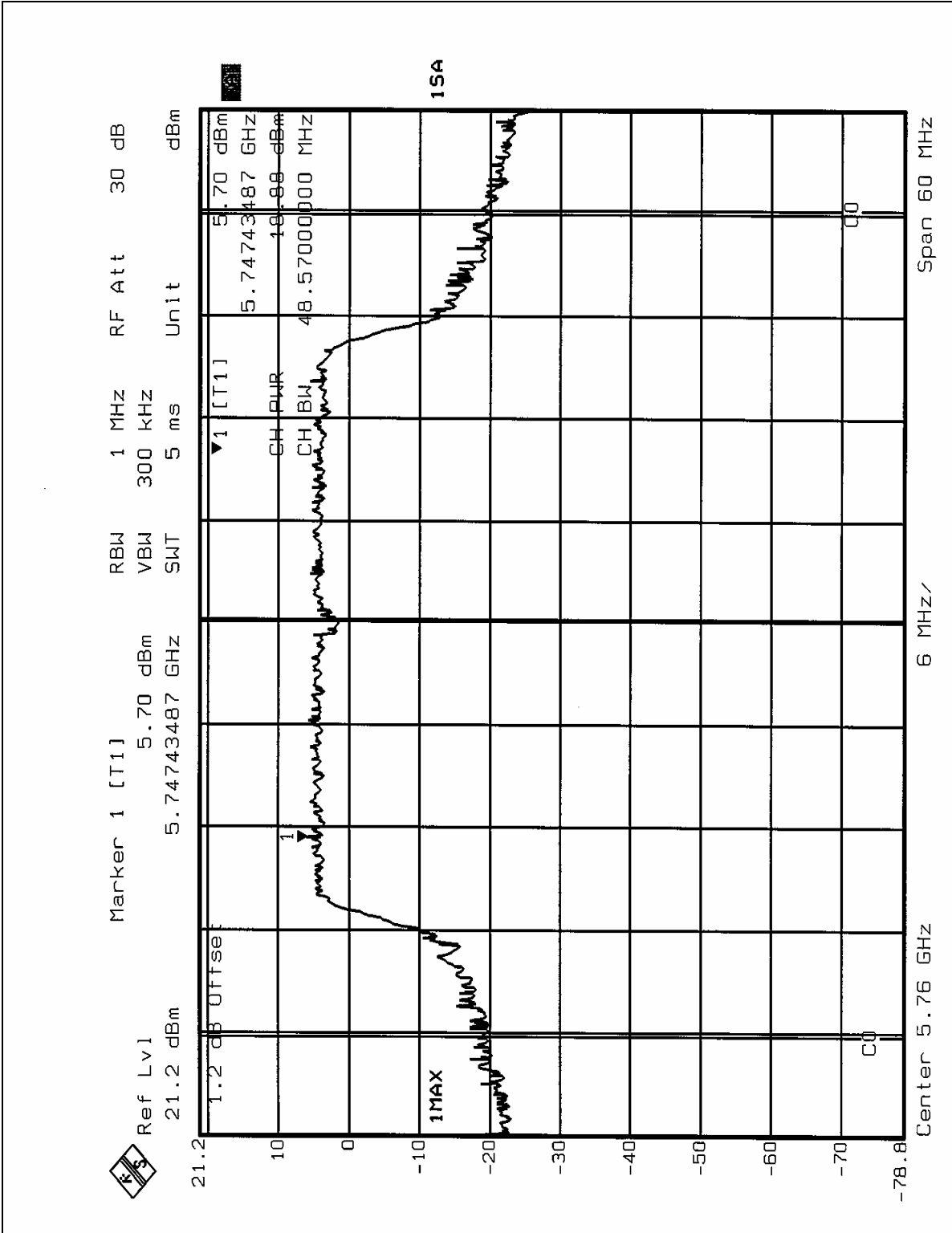
**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

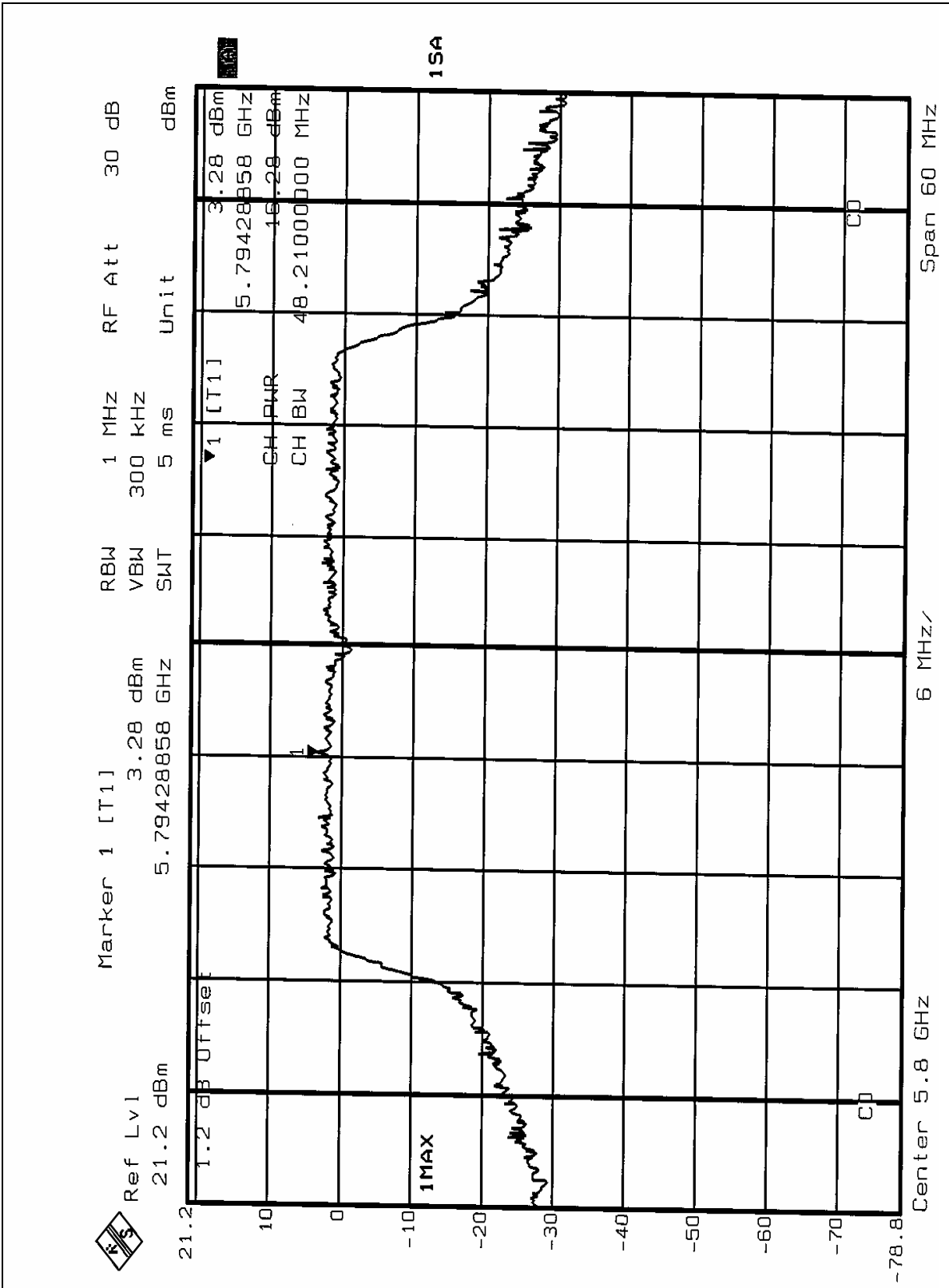


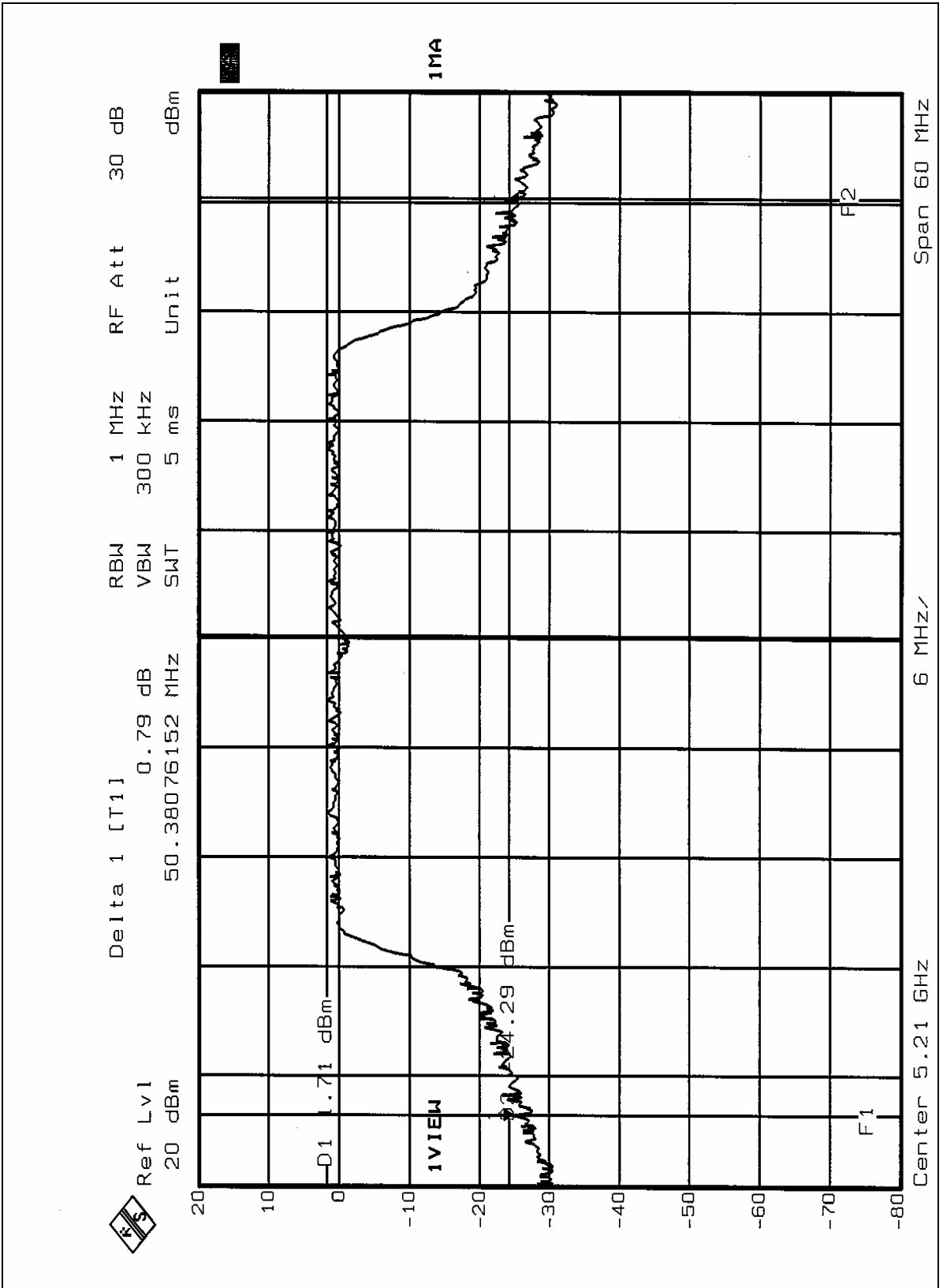


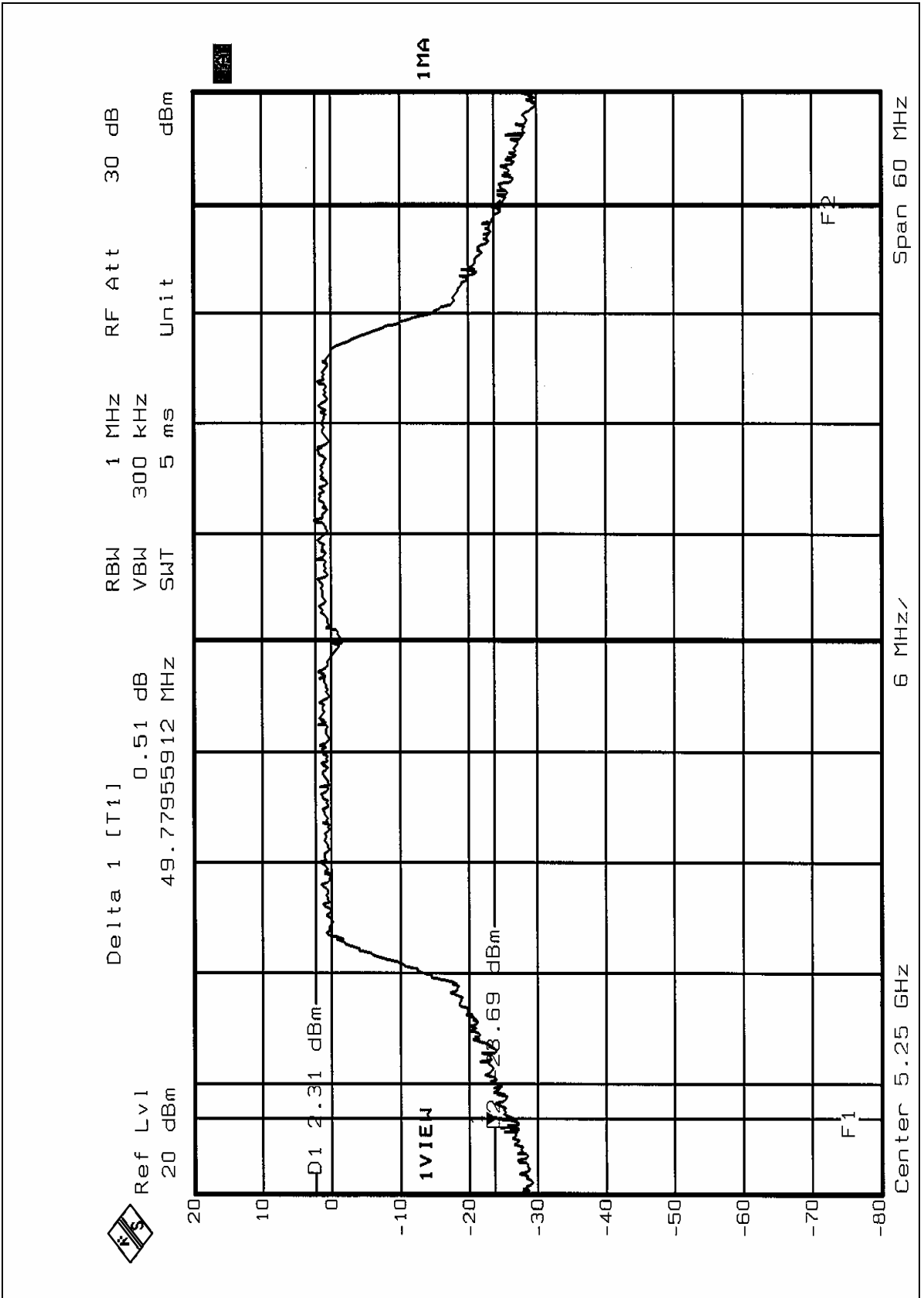
CHANNEL3



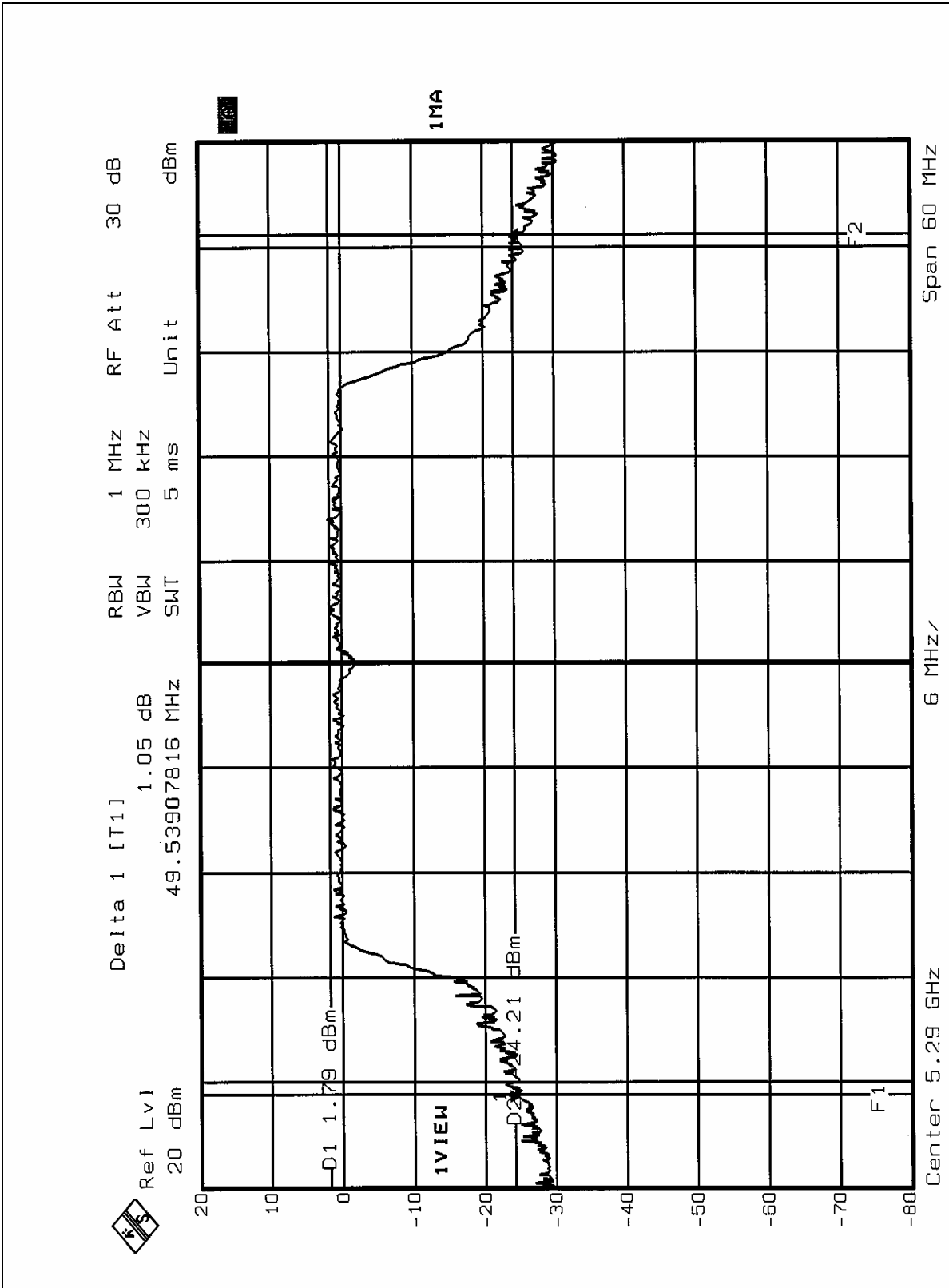












CHANNEL 4

