

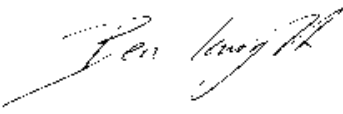


**SUPPLEMENTARY TEST REPORT  
FROM  
RADIO FREQUENCY  
INVESTIGATION LTD.**

Test Of: Adaptive Broadband Ltd.  
AB Access EXTENDER

To: FCC Part 15: Subpart E: 2000  
(Unlicensed National Information  
Infrastructure Devices)

**Supplementary Test Report Serial No.:**  
RFI/MICB1/SUP42151B

<b>This Supplementary Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director:</b> 	<b>Checked By:</b> 
<b>Tested By:</b> 	<b>Release Version No:</b> PDF01
<b>Issue Date: 27 June 2001</b>	

**This supplementary report is issued in conjunction with RFI Test Report Serial No: RFI/MICB1/RP42151A. The report has been issued to resolve the issues raised in FCC Correspondence Reference Number: 2147731, Confirmation Number: TC101128, FCC ID Number: OJB-EX-F058).**

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This supplementary test report may be copied in full.

**RADIO FREQUENCY INVESTIGATION LTD.**

**Conformance Testing Department**

**Test Of: Adaptive Broadband Ltd.**

**AB Access EXTENDER**

**To: FCC Part 15: Subpart E: 2000**

**SUPPLEMENTARY TEST REPORT**

**S.No: RFI/MICB1/SUP42151B**

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**Issue Date: 27 June 2001**

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                  AB Access EXTENDER  
To:                FCC Part 15: Subpart E: 2000**

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**To:** FCC Part 15: Subpart E: 2000

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## **1. Client Information**

<b>Company Name:</b>	Adaptive Broadband Ltd.
<b>Address:</b>	The Westbrook Centre Block 5 Milton Road Cambridge SB41 1YG.
<b>Contact Name:</b>	Mr A Crisp.

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## **2. Equipment Under Test (EUT)**

The following information (with the exception of the Date of Receipt) has been supplied by the client:

### **2.1. Identification Of Equipment Under Test (EUT)**

Brand Name:	AB-Access <sup>TM</sup> EXTENDER
Model Name or Number:	Subscriber Unit
Unique Type Identification:	None stated by client
Serial Number:	None
Country of Manufacture:	USA
FCC ID Number:	OJB-EX-F058
Date of Receipt:	10 April 2001

Brand Name:	AB-Access <sup>TM</sup> EXTENDER
Model Name or Number:	Power Supply
Unique Type Identification:	SSL40-3360
Serial Number:	None stated by client
Country of Manufacture:	China
FCC ID Number:	Awaiting certification from FCC
Date of Receipt:	10 April 2001

Brand Name:	AB-Access <sup>TM</sup> EXTENDER
Model Name or Number:	AB-Access Extender Wall Box
Unique Type Identification:	10000008
Serial Number:	None stated by client
Country of Manufacture:	EU
FCC ID Number:	Awaiting certification from FCC
Date of Receipt:	10 April 2001

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## **2.2. Description Of EUT**

AB-Access<sup>TM</sup> EXTENDER is targeted at providing high-speed wireless internet/video/data/voice access in the FCC UNII bands between 5.725 GHz and 5.825 GHz.

AB-Access<sup>TM</sup> EXTENDER adopts a point to point configuration, consisting of two AB-Access extender units. It is a fixed access, point to point infrastructure. The product is targeted for the US market only.

The Subscriber Unit (SU) is routed via a wall box to the network service provider's truncated infrastructure. The SU has an integral antenna with a 10 degree by 10 degree, 3dB beam width to receive/transmit the desired area of coverage. SU units can be installed around the periphery of a tall building or on a tower for optimum line of sight range. Power and data (bi-directional) are routed via braid and foil screened, quad twisted pair, CAT 5 data cable from the internally mounted wall box (similar in construction to a standard BT telephone outlet) up to the SU transceiver/antenna unit. Power and data status is also routed via this cable. Power is provided to the wall box via a standard FCC approved 48V DC power supply. The wall box provides either Ethernet or ATM connectivity via the industry standard RJ45 socket, to the service providers network and end customer systems.

## **2.3. Modifications Incorporated In EUT**

The EUT incorporates the following modifications:

The AB-Access<sup>TM</sup> EXTENDER unit has been modified so that it can be driven from a PC test script, enabling the worst case conditions for FCC requirements, to be evaluated and tested for compliance. There are no hardware modifications, as the modification is purely in the software driver. AB Access employs a rapid Time Division Duplex (TDD) air interface, based on Asynchronous Transfer Mode (ATM) networking protocols. Data is transmitted asynchronously on demand, so there is no discernible duty cycle from which averaged measurements can be taken.

The following test modes have been implemented:

- Continuous Transmit Mode (CTM) – this configures the unit for its worst case mode, for EIRP measurements. The unit is set for maximum transmit power, to give the worst case for switching transients, which can cause spurious emissions whilst performing radiated and conducted emissions.
- Continuous Bursted Receive Mode (CBRM) – this exercises the unit if there may be some fundamental frequency components that exceed the receive switch test mode. In this configuration the unit is set to maximum receive gain.

In either of these modes it is possible to change the operating channel and antenna polarisation as required, by means of the PC controller.

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## **2.4. Additional Information Related To Equipment Under Test**

<b>Power Supply Requirement:</b>	Nominal 115 V, 60 Hz AC Mains Supply 13 Amp (max) 48 V DC from PSU to EUT
<b>Current Rating:</b>	0.6 Amps
<b>Highest Frequency used or generated within the EUT</b>	5.805 GHz
<b>Type of Device:</b>	Point to Point wireless data system
<b>Antenna Details:</b>	Permanently attached. (Horizontal or Vertical)
<b>Antenna Gain (Declared)</b>	+23dBi
<b>Transmitter Duty:</b>	Continuous
<b>Occupied Bandwidth:</b>	17 MHz
<b>Transmit Frequency:</b>	5.745 GHz to 5.805 GHz
<b>Type of Modulation:</b>	QPSK at 25 Mb/s/sec, raised cosine filter ( $\alpha = 0.35$ )
<b>Number of Channels:</b>	5 Channels of 15 MHz
<b>Receiver Category:</b>	Superhetrodyne Highest local oscillator frequency 4.9025 GHz
<b>Antenna</b>	Permanently attached. (Horizontal or Vertical)
<b>Tuning Frequency:</b>	5.745 GHz to 5.805 GHz
<b>Method of frequency Generation:</b>	Synthesizer
<b>Intended Operating Environment:</b>	AB-Access™ EXTENDER unit transceivers/antennas are mounted outside with an operating range of -20°C to +50°C. The wall box and power supply are intended to be mounted internally in users building/office/or home.
<b>Weight:</b>	Master Unit = 6.25 Kg PSU = 0.2 Kg Wall Box = 0.05 Kg
<b>Dimensions:</b>	Master Unit = 0.37 x 0.40 x 0.10 metres PSU = 0.11 x 0.045 x 0.03 metres Wall Box = 0.085 x 0.085 x 0.040 metres
<b>Interface Ports:</b>	Wall Box RJ45 Socket - Ethernet or ATM
<b>Cycle Time:</b>	Not applicable

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## **2.5. Support Equipment**

The following support equipment was used to exercise the EUT during testing.

<b>Description:</b>	Personal Computer
<b>Model Name:</b>	Dell
<b>Model Number:</b>	PPX
<b>Serial Number:</b>	4898T
<b>Cable Length And Type:</b>	10.0 metres Ethernet cable
<b>Connected to Port:</b>	Local Area Line (LAN) to port 4 on fast Ethernet switch

<b>Description</b>	Fast Ethernet Switch
<b>Brand Name</b>	Netgear
<b>Model Name or Number</b>	FS308
<b>Serial Number</b>	FS38G05015393
<b>F.C.C. ID Number</b>	None stated
<b>Cable Length And Type</b>	9 m Ethernet Crossover Cable
<b>Connected to Port</b>	Port 5 to RJ45 Port on the Wall Box of the EUT



### **3. Operation of EUT**

#### **3.1. Operating Conditions**

The EUT was tested in a normal laboratory environment.

During the testing the EUT was powered by a 48 V DC supply from the PSU. The PSU was powered from a 115 V AC, 60 Hz mains supply.

#### **3.2. Operating Modes**

The EUT was tested in the following operating modes:

Continuous Transmit Mode at maximum power for transmitter tests.

Continuous Bursted Receive Mode for receiver tests.

The tests were performed with the EUT in both antenna polarisation's and set to the bottom (10), middle (12) and top (14) channels, which are shown in the table below.

The reason for choosing this mode was that it was defined by the client as being likely to be the worst case with regards EMC.

<b>Channel</b>	<b>Frequency/GHz</b>
10	5.745
12	5.775
14	5.805

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### **3.3. Configuration And Peripherals**

The EUT was tested in the following configuration:

The AB-Access<sup>TM</sup> EXTENDER unit was connected via the S-FTP, CAT 5 cable to the wall box. The power was supplied from the PSU to the wall box. Data was controlled from the support PC to the wall box via S-UTP-CAT 5 Ethernet cables.

The reason for choosing this configuration was that it was defined by the client as being likely to be the worst case with regards EMC and typical of an installation of a users home or office.

### **3.4. Configuration of EUT During Radiated Emissions Testing.**

All six faces of the EUT were orientated towards the measuring antenna during the Effective Isotropic Radiated Spurious Emissions and Electric Field Strength Spurious Emissions tests. All results from these Radiated measurements can be seen in the original RFI test report, RFI/MICB1/RP42151A. The photographs of which show the worst case configuration.

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#### **4. Summary Of Test Results**

**This section cross references the issues raised in FCC Correspondence  
Reference Number: 2147731, Confirmation Number: TC101128, FCC ID Number:  
OJB-EX-F058.**

<b>Cross Reference Number</b>	<b>Issues / Measurements</b>	<b>Compliance Status / Comment</b>
1.	Internal Photographs of EUT	Please refer to the additional photographs supplied to the TCB
3.	Frequency Stability	Complied Refer to Section 5.2
4.	Photographs of test configuration.	Refer to Section 3.4
5.	Peak Conducted Transmit Output Power	Complied Refer to Section 5.1.1 and Appendix 2
6.	Bandwidth	Complied Refer to Section 5.1.1 and Appendix 2
7.	Peak Power Spectral Density	Complied Refer to Section 5.1.1 and Appendix 2
8.	Peak Excursion of the Modulation Envelope	Complied Refer to Section 5.1.1 and Appendix 2
9.	Antenna Gain	The declared gain of the antenna is 23dBi
10.	EIRP limits using measured bandwidth B	Complied
11.	Bandedge measurements	Complied Refer to Section 5.2 and Appendix 2

##### **4.1. Locaion Of Tests**

All the measurements described in this report were performed at the premises of Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.

## **5. Test Results**

### **5.1. Test Results For Conducted Emissions: Transmit Mode**

#### **5.1.1. Peak Conducted Transmit Output Power**

5.1.1.1. Measurements were performed in accordance with Section 15.407 of C.F.R. 47: 2000, on the bottom, middle and top channels.

5.1.1.2. It was possible to polarise the antenna incorporated within the EUT for both vertical and horizontal polarisation's. Therefore measurements were performed with the antenna polarised in both planes.

5.1.1.3. The peak power measurements were performed conducted at the antenna connector using a peak power sensor.

5.1.1.4. Results are shown for the EUT operating on each of the 3 channels and both the EUT antenna polarisation's stated in section 3.2. Measurements are shown for both transmit power and peak power spectral density. Plots showing the characteristics of the transmitter output can be found in Appendix 2.

5.1.1.5. As specified by 15.407(a)(5), the Peak Power Spectral Density was performed as a conducted measurement by direct connection of a calibrated test instrument to the equipment under test. Similarly, the Peak Power was also measured by direct connection.

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**Results: Peak Transmit Power Output and Bandwidth**

<b>Channel</b>	<b>EUT Antenna Polarisation</b>	<b>Measured Peak Power (dBm)</b>	<b>Measured Bandwidth (MHz)</b>	<b>Plot No.</b>	<b>Result</b>
10	Vertical	14.9	15.5	A/404	Complied
10	Horizontal	14.9	15.5	A/405	Complied
12	Vertical	15.1	15.8	A/403	Complied
12	Horizontal	15.0	15.8	A/402	Complied
14	Vertical	15.1	15.7	A/400	Complied
14	Horizontal	14.9	15.7	A/401	Complied

Note: The declared gain of the antenna is 23dBi.

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**Results: Peak Power Spectral Density (PPSD)**

<b>Channel</b>	<b>EUT Antenna Polarity</b>	<b>Measured PPSD (dBm/MHz)</b>	<b>Limit (dBm/MHz)</b>	<b>Plot No.</b>	<b>Result</b>
10	Vertical	11.2	17.0	A/023	Complied
10	Horizontal	10.8	17.0	A/003	Complied
12	Vertical	10.8	17.0	A/019	Complied
12	Horizontal	12.1	17.0	A/006	Complied
14	Vertical	11.4	17.0	A/014	Complied
14	Horizontal	10.9	17.0	A/011	Complied

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**Results: Ratio of Peak Excursion of the Modulation Envelope**

<b>Channel</b>	<b>EUT Antenna Polarity</b>	<b>Measured Ratio: Peak Excursion</b>	<b>Limit (dB)</b>	<b>Plot No.</b>	<b>Result</b>
10	Vertical	7.2	13.0	A/024	Complied
10	Horizontal	7.3	13.0	A/004	Complied
12	Vertical	8.6	13.0	A/020	Complied
12	Horizontal	8.1	13.0	A/005	Complied
14	Vertical	8.9	13.0	A/013	Complied
14	Horizontal	8.8	13.0	A/012	Complied

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## **5.2. Test Results For Frequency Stability: Transmit Mode**

### **5.2.1. Frequency Stability and Bandedge Measurements**

5.2.1.1. Measurements were performed in accordance with Section 2.1055 of C.F.R. 47: 2000 on the bottom and top channels.

5.2.1.2. The EUT's antenna can transmit in both horizontal and vertical polarisations. Therefore conducted measurements were performed at both the horizontal and vertical antenna ports.

5.2.1.3. The test results are presented in graphical format. Plots showing the characteristics of the transmitter output can be found in Appendix 2.

5.2.1.4. The EUT was configured for normal operation as per 15.407(g).



5.2.1.5. Summary of frequency stability test results:

Test Conditions (Deg.C)	Measured Frequency Deviation (kHz)	Limit	Result
-30.0	<200	Within the band of operation (100MHz)	Complied
-20.0	<200		Complied
-10.0	<200		Complied
0.0	<200		Complied
+10.0	<200		Complied
+20.0	<200		Complied
+30.0	<200		Complied
+40.0	<200		Complied
+50.0	<200		Complied

**Results: Supply Variation**

5.2.1.6. The test results are presented in graphical format. Plots showing the characteristics of the transmitter output can be found in Appendix 2.

Frequency Deviation @ +20° C (kHz)				
85% Supply Voltage	100% Supply Voltage	115% Supply Voltage	Limit	Result
<200	<200	<200	Within the band of operation (100MHz)	Complied

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## **Appendix 1. Test Equipment**

<b>Instrument</b>	<b>Manufacturer</b>	<b>Model</b>	<b>RFI No.</b>
Chase Bilog Antenna	Chase EMC Ltd	CBL6112B	A1037
Bilog Antenna	Chase	CBL6111	A259
OATS Positioning Controller	Rohde & Schwarz	HCC	A276
WG 22 Attenuator	Flann	22081-10	A332
Absorbing Clamp	Rohde & Schwarz	MDS 21	A504
Cables	Rosenberger	UFA210A-1-1181-70x70	C160
Cable	Andrews	None	C340
Cable	Rosenberger	UFA210A-1-1182-704704	C459
C564-N-2	Rosenberger	UFA 210A-1-0787-70x70	C564
Spectrum Monitor	Rohde & Schwarz	EZM	M003
ESVP Receiver	Rohde & Schwarz	ESVP	M023
Temperature/Humidity/Pressure Meter	RS Components	None	M136
40GHz Peak Power Sensor	Boonton	51072	M140
Power Meter	Boonton	4220	M141
Turntable Controller	R.H.Electrical Services	RH351	M173
OATS Turntable	British Turntable Ltd	S36069	M174
Thermo/hygro meter	RS Components Ltd	RS212-124	M210
Analyser Display Unit	Rohde & Schwarz	ESAI-D	M505
RF unit	Rohde & Schwarz	ESBI-RF	M506
Site 1	RFI	1	S201

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## **Appendix 2. Graphical Test Results**

This appendix contains the following graphs:

<b>Graph Reference Number</b>	<b>Title</b>
GPH/42151A/100	Frequency Stability, Channel 14 Tnom Vnom, FCC Part 15.407
GPH/42151A/101	Frequency Stability, Channel 10 Tnom Vnom, FCC Part 15.407
GPH/42151A/102	Frequency Stability, Channel 14 T-30.0 Vnom, FCC Part 15.407
GPH/42151A/103	Frequency Stability, Channel 10 T-30.0 Vnom, FCC Part 15.407
GPH/42151A/104	Frequency Stability, Channel 10 T-20.0 Vnom, FCC Part 15.407
GPH/42151A/105	Frequency Stability, Channel 14 T-20.0 Vnom, FCC Part 15.407
GPH/42151A/106	Frequency Stability, Channel 14 T-10.0 Vnom, FCC Part 15.407
GPH/42151A/107	Frequency Stability, Channel 10 T-10.0 Vnom, FCC Part 15.407
GPH/42151A/108	Frequency Stability, Channel 10 T 0.0 Vnom, FCC Part 15.407
GPH/42151A/109	Frequency Stability, Channel 10 T 0.0 Vnom, FCC Part 15.407
GPH/42151A/110	Frequency Stability, Channel 14 T 10.0 Vnom, FCC Part 15.407
GPH/42151A/111	Frequency Stability, Channel 10 T 10.0 Vnom, FCC Part 15.407

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**Graphical Test Results (continued)**

<b>Graph Reference Number</b>	<b>Title</b>
GPH/42151A/112	Frequency Stability, Channel 10 T 20.0 Vnom, FCC Part 15.407
GPH/42151A/113	Frequency Stability, Channel 14 T 20.0 Vnom, FCC Part 15.407
GPH/42151A/114	Frequency Stability, Channel 10 T 30.0 Vnom, FCC Part 15.407
GPH/42151A/115	Frequency Stability, Channel 14 T 30.0 Vnom, FCC Part 15.407
GPH/42151A/116	Frequency Stability, Channel 14 T 40.0 Vnom, FCC Part 15.407
GPH/42151A/117	Frequency Stability, Channel 10 T 40.0 Vnom, FCC Part 15.407
GPH/42151A/118	Frequency Stability, Channel 10 T 50.0 Vnom, FCC Part 15.407
GPH/42151A/119	Frequency Stability, Channel 14 T 50.0 Vnom, FCC Part 15.407
GPH/42151A/200	Band Edge Measurements, Channel 10 Tnom Vnom, FCC Part 15.407
GPH/42151A/201	Band Edge Measurements, Channel 10 Tnom Vlow, FCC Part 15.407
GPH/42151A/202	Band Edge Measurements, Channel 10 Tnom Vhigh, FCC Part 15.407
GPH/42151A/203	Band Edge Measurements, Channel 14 Tnom Vhigh, FCC Part 15.407

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**Graphical Test Results (continued)**

Graph Reference Number	Title
GPH/42151A/204	Band Edge Measurements, Channel 14 Tnom Vnom, FCC Part 15.407
GPH/42151A/205	Band Edge Measurements, Channel 14 Tnom Vlow, FCC Part 15.407
GPH/42151A/205	Band Edge Measurements, Channel 14 Tnom Vlow, FCC Part 15.407
GPH/42151A/400	Emission Bandwidth, Antenna Port Measurement Top Channel, Antenna Pol Vertical, FCC Part 15.407
GPH/42151A/401	Emission Bandwidth, Antenna Port Measurement Top Channel, Antenna Pol Horizontal, FCC Part 15.407
GPH/42151A/402	Emission Bandwidth, Antenna Port Measurement Middle Channel, Antenna Pol Horizontal, FCC Part 15.407
GPH/42151A/403	Emission Bandwidth, Antenna Port Measurement Middle Channel, Antenna Pol Vertical, FCC Part 15.407
GPH/42151A/404	Emission Bandwidth, Antenna Port Measurement Bottom Channel, Antenna Pol Vertical, FCC Part 15.407
GPH/42151A/405	Emission Bandwidth, Antenna Port Measurement Bottom Channel, Antenna Pol Horizontal, FCC Part 15.407
GPH/42151A/004	Peak Excursion, Antenna Port, Bottom Channel, Antenna Horizontal, (5.73247 GHz to 5.75747 GHz), FCC Part 15.407
GPH/42151A/005	Peak Excursion, Antenna Port, Middle Channel, Antenna Horizontal, (5.76244 GHz to 5.78744 GHz), FCC Part 15.407
GPH/42151A/012	Peak Excursion, Antenna Port, Top Channel, Antenna Horizontal, (5.79266 GHz to 5.81766 GHz), FCC Part 15.407
GPH/42151A/013	Peak Excursion, Antenna Port, Top Channel, Antenna Vertical, (5.79266 GHz to 5.81766 GHz), FCC Part 15.407
GPH/42151A/020	Peak Excursion, Antenna Port, Middle Channel, Antenna Vertical, (5.76244 GHz to 5.78744 GHz), FCC Part 15.407
GPH/42151A/024	Peak Excursion, Antenna Port, Bottom Channel, Antenna Vertical, (5.73228 GHz to 5.75728 GHz), FCC Part 15.407
GPH/42151A/003	PPSD, Antenna Port, Bottom Channel, Antenna Horizontal, (5.72497 GHz to 5.76497 GHz), FCC Part 15.407(a)

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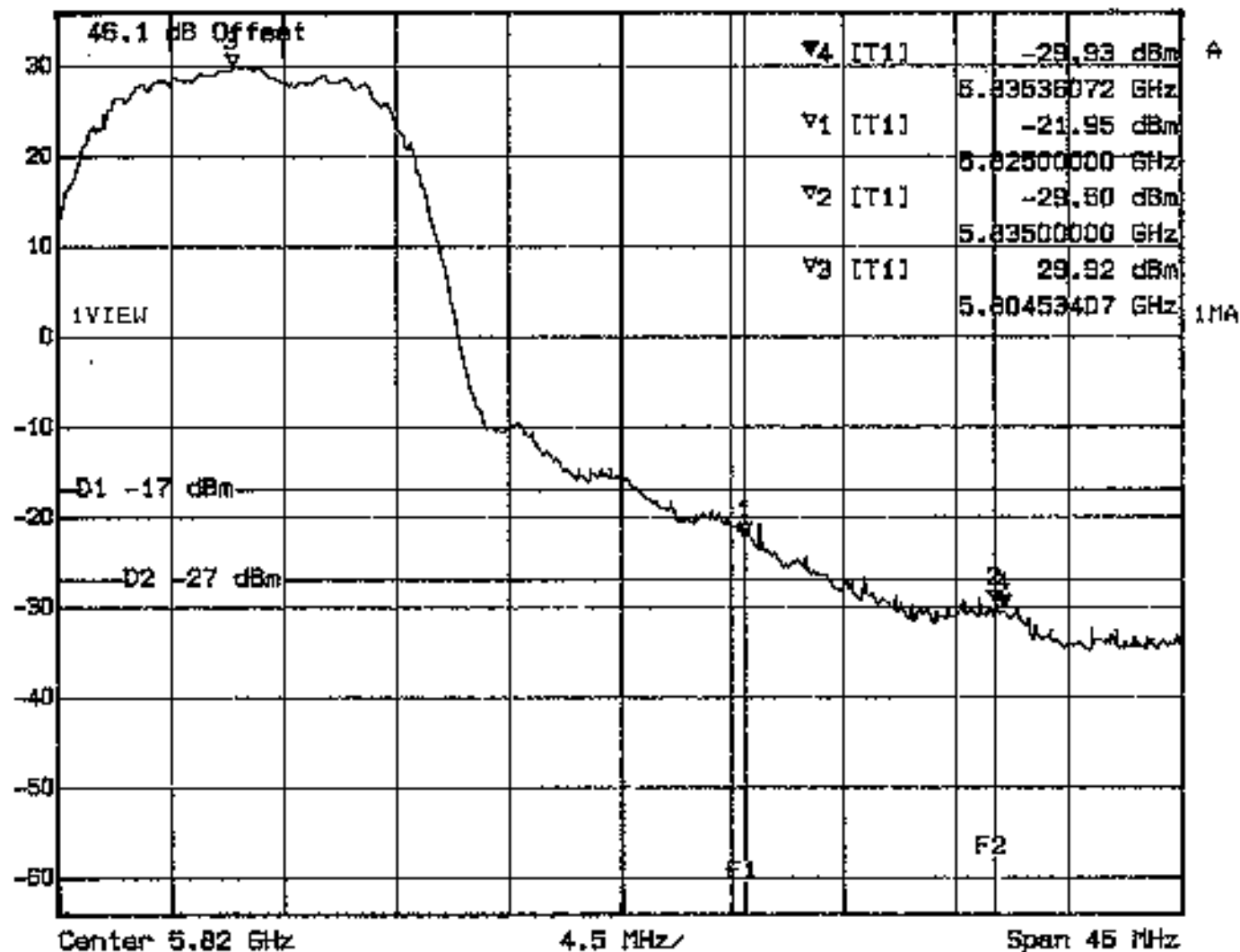
**Graphical Test Results (continued)**

<b>Graph Reference Number</b>	<b>Title</b>
GPH/42151A/006	PPSD, Antenna Port, Middle Channel, Antenna Horizontal, (5.75494 GHz to 5.79494 GHz), FCC Part 15.407(a)
GPH/42151A/011	PPSD, Antenna Port, Top Channel, Antenna Horizontal, (5.78516 GHz to 5.82516 GHz), FCC Part 15.407(a)
GPH/42151A/014	PPSD, Antenna Port, Top Channel, Antenna Vertical, (5.79266 GHz to 5.81766 GHz), FCC Part 15.407(a)
GPH/42151A/019	PPSD, Antenna Port, Middle Channel, Antenna Vertical, (5.75494 GHz to 5.79494 GHz), FCC Part 15.407(a)
GPH/42151A/023	PPSD, Antenna Port, Bottom Channel, Antenna Vertical, (5.75494 GHz to 5.79494 GHz), FCC Part 15.407(a)

These pages are not included in the total number of pages for this supplementary report.



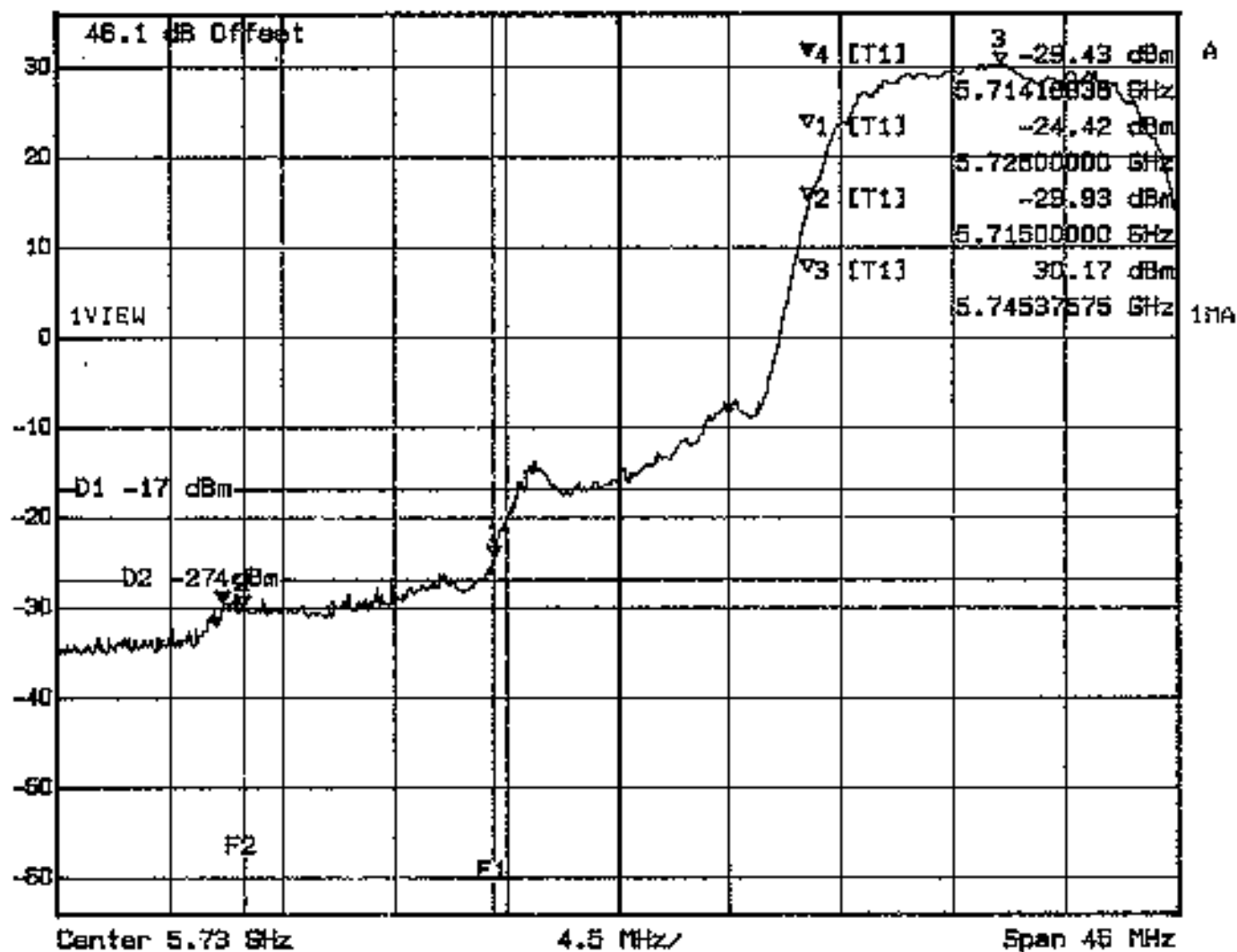
Marker 4 [T1] RBW 1 MHz RF Att 0 dB  
Ref Lvl -29.93 dBm VBW 1 MHz  
36.1 dBm 5.83536072 GHz SWT 5 ms Unit dBm



Comment A: Frequency Stability FCC 15.407 CH 14 GPH/42151A/100  
From Vnom Reference Plot  
Date: 19.JUN.2001 12:28:13



Ref Lvl 36.1 dBm  
Marker 4 [T1] -29.43 dBm  
RBW 1 MHz  
VBW 1 MHz  
SMT 5 ms  
RF Att 0 dB  
Unit dBm

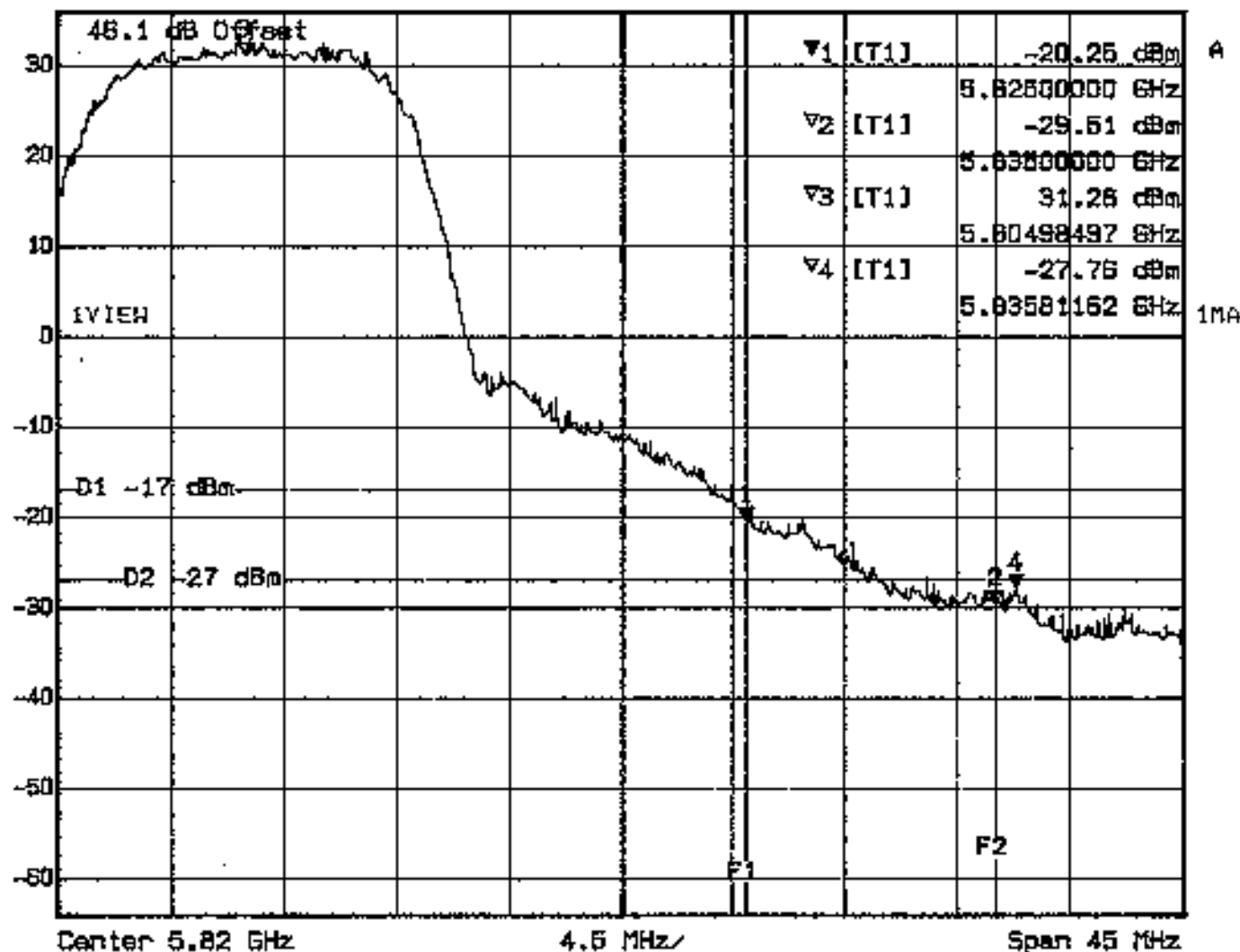


Comment A: Frequency Stability FCC 15.407 CH 10 GPH/42151A/101  
From Vnom Reference Plot  
Date: 19.JUN.2001 12:06:18





Marker 1 [T1] RBW 1 MHz RF Att 0 dB  
Ref Lvl -20.25 dBm VBN 1 MHz  
36.1 dBm 5.82500000 GHz SWT 5 ms Unit dBm



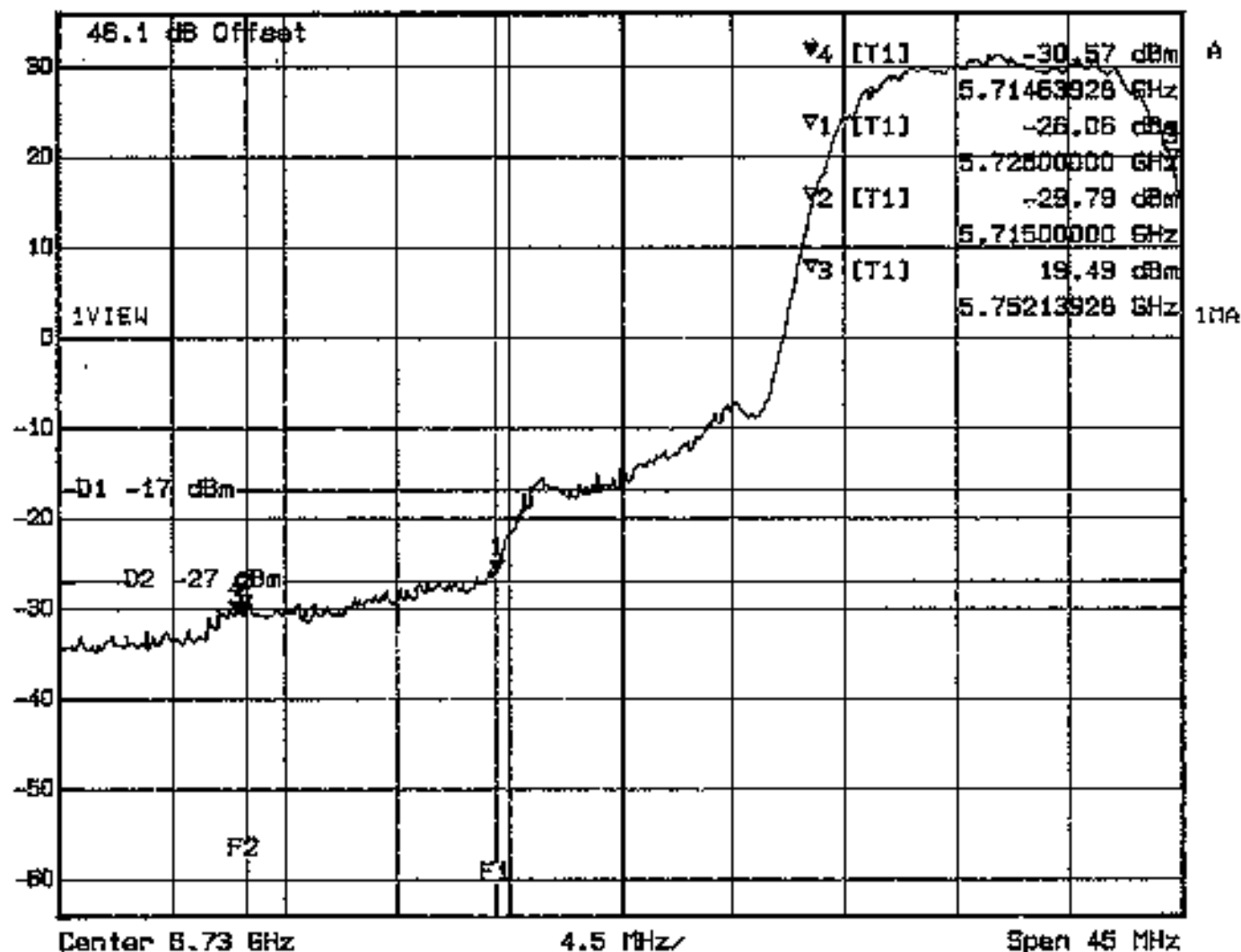
Comment A: Frequency Stability FCC 15.407 CH 14 SPH/42151A/102

T-30.0 Vnom

Date: 19.JUN.2001 13:18:10



Ref Lvl 36.1 dBm  
Marker 4 [T1] -30.57 dBm  
5.71463928 GHz  
RBW 1 MHz  
VBW 1 MHz  
SMT 5 ns  
RF Att 0 dB  
Unit dBm



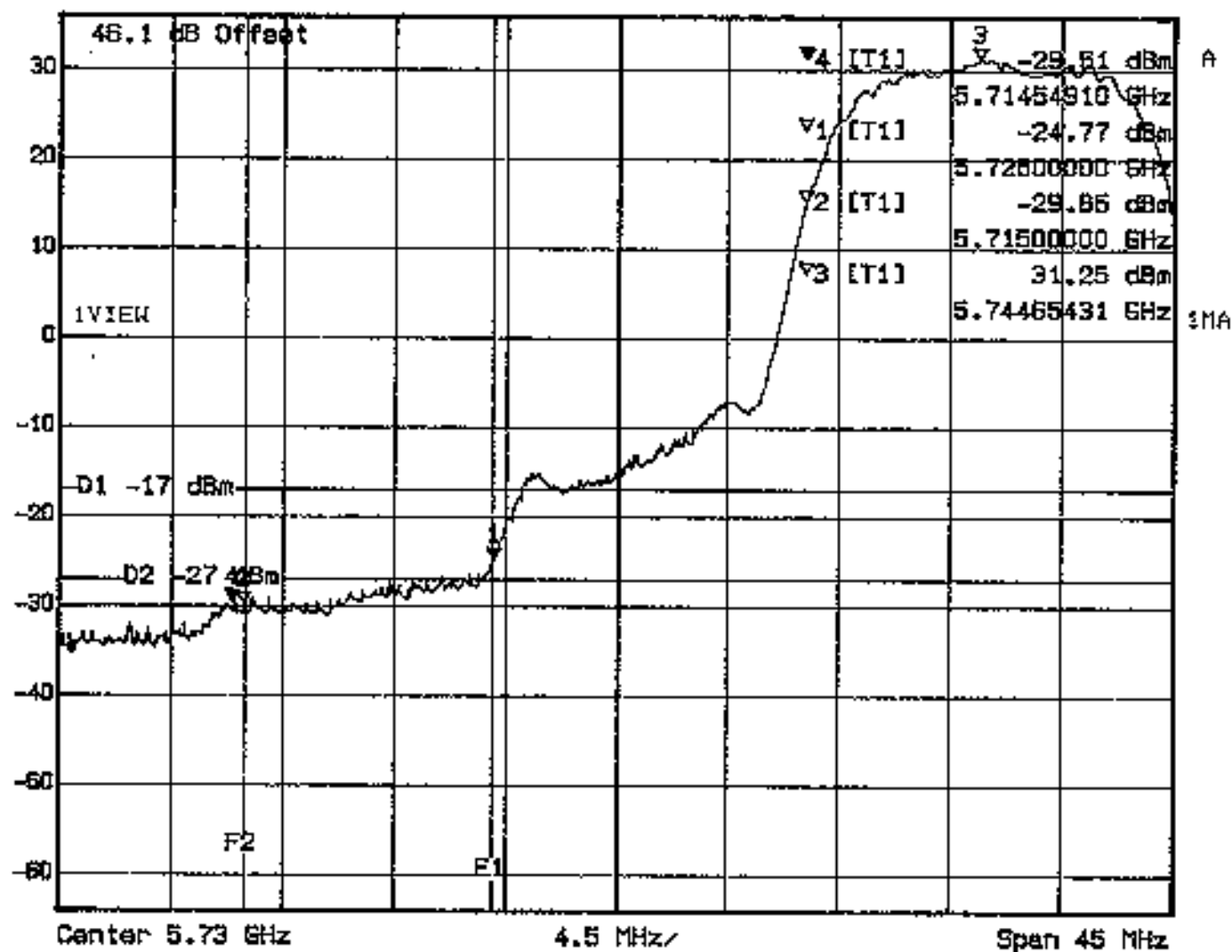
Comment A: Frequency Stability FCC 15.407 CH 10 GPH/42161A/103

T-30.0 Vnom

Date: 19 JUN 2001 13:27:15



Ref Lvl 36.1 dBm  
Marker 4 [T1] -29.51 dBm  
5.71454910 GHz  
RBW 1 MHz  
VBW 1 MHz  
SWT 5 ms  
RF Att 0 dB  
Unit dBm



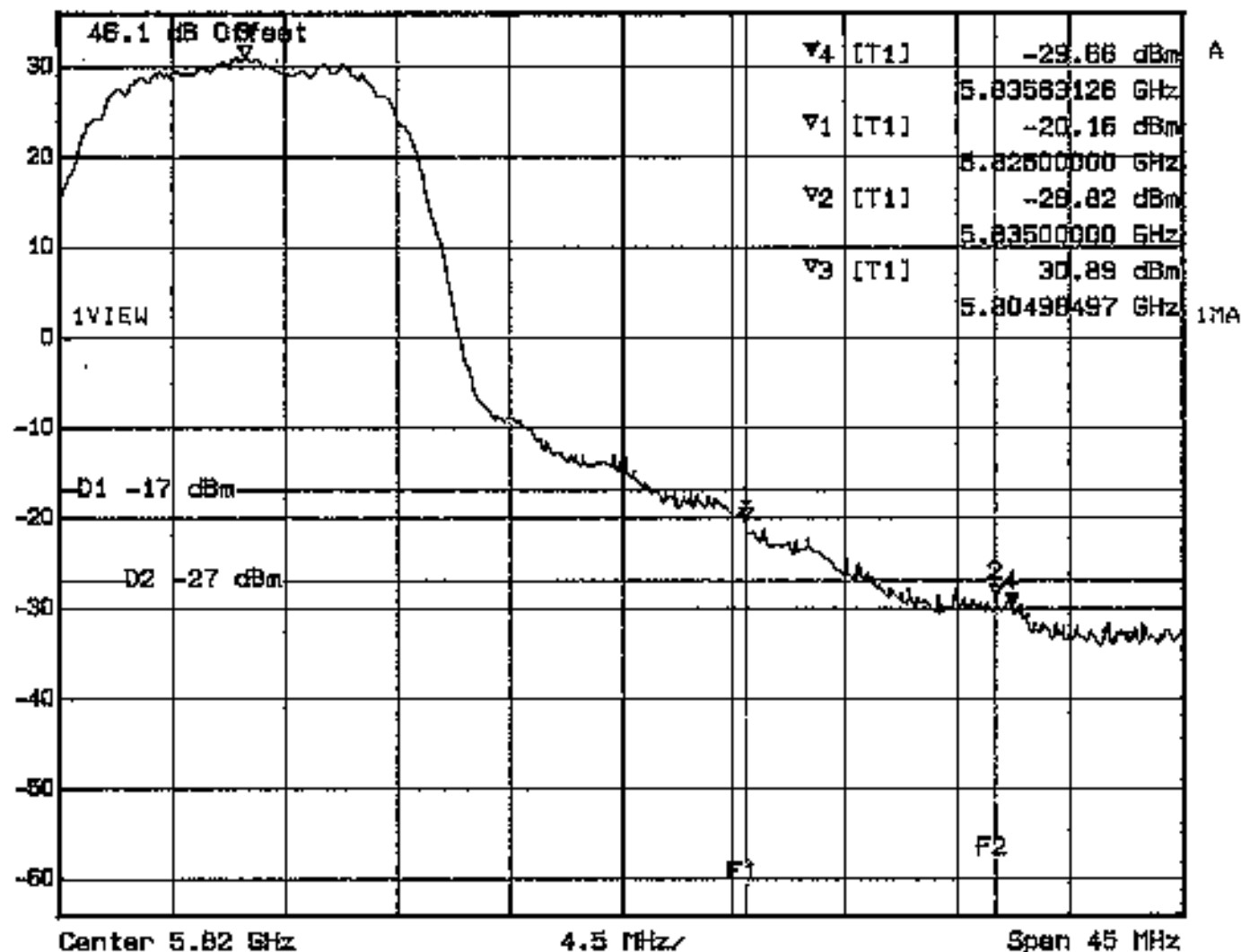
Comment A: Frequency Stability FCC 15.407 CH 10 6PH/42151A/104

T-20.0 Vnom

Date: 19.JUN.2001 15:02:18



Ref Lvl 36.1 dBm  
Marker 4 [T1] -29.66 dBm  
5.83563126 GHz  
RBW 1 MHz  
VBW 1 MHz  
SNT 5 ms  
RF Att 0 dB  
Unit dBm



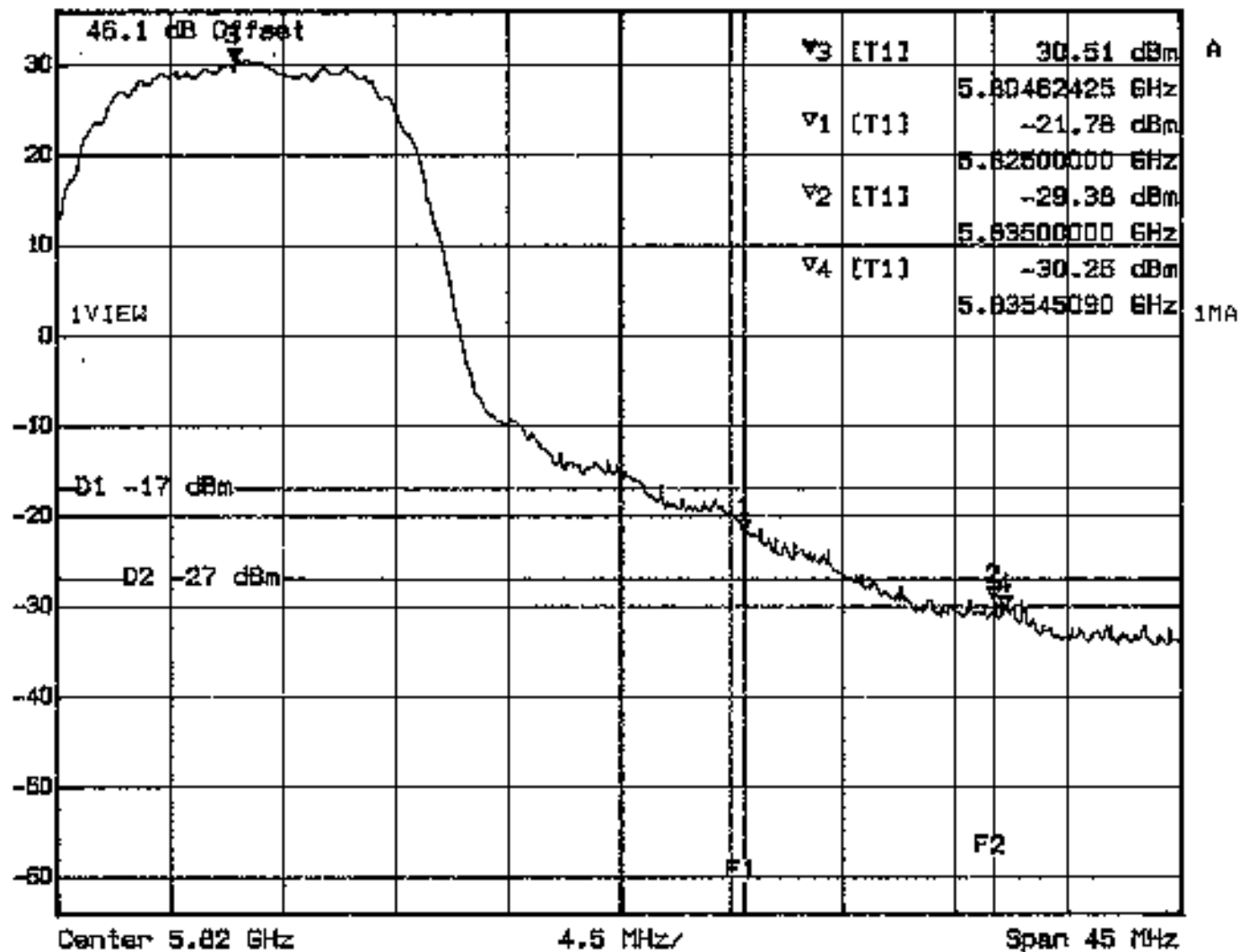
Comment A: Frequency Stability FCC 15.407 CH 14 GPH/42151A/105

T-20.0 Vnom

Data: 19 JUN 2001 15:21:36



Marker 3 [T1] RBW 1 MHz RF Att 0 dB  
Ref Lvl 30.51 dBm VBW 1 MHz  
36.1 dBm 5.60462425 GHz SWT 5 ms Unit dBm

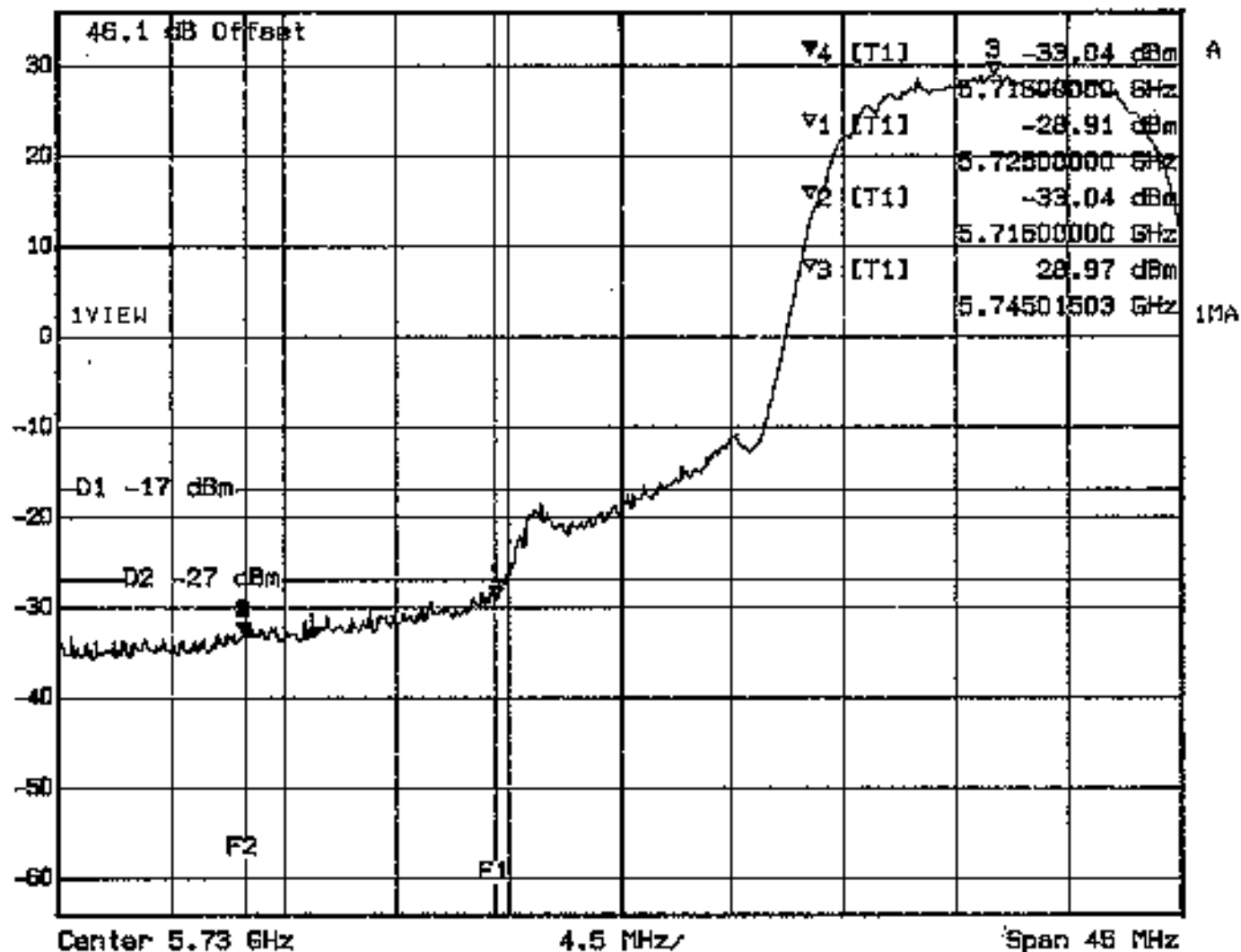


Comment A: Frequency Stability FCC 15.407 CH 14 GPH/42151A/106  
T-10.0 Vnom

Date: 19.JUN.2001 16:43:05



Ref Lvl 36.1 dBm  
 Marker 4 [T1] -33.04 dBm  
 5.71500000 GHz  
 RBW 1 MHz  
 VBW 1 MHz  
 SWT 5 ms  
 RF Att 0 dB  
 Unit dBm



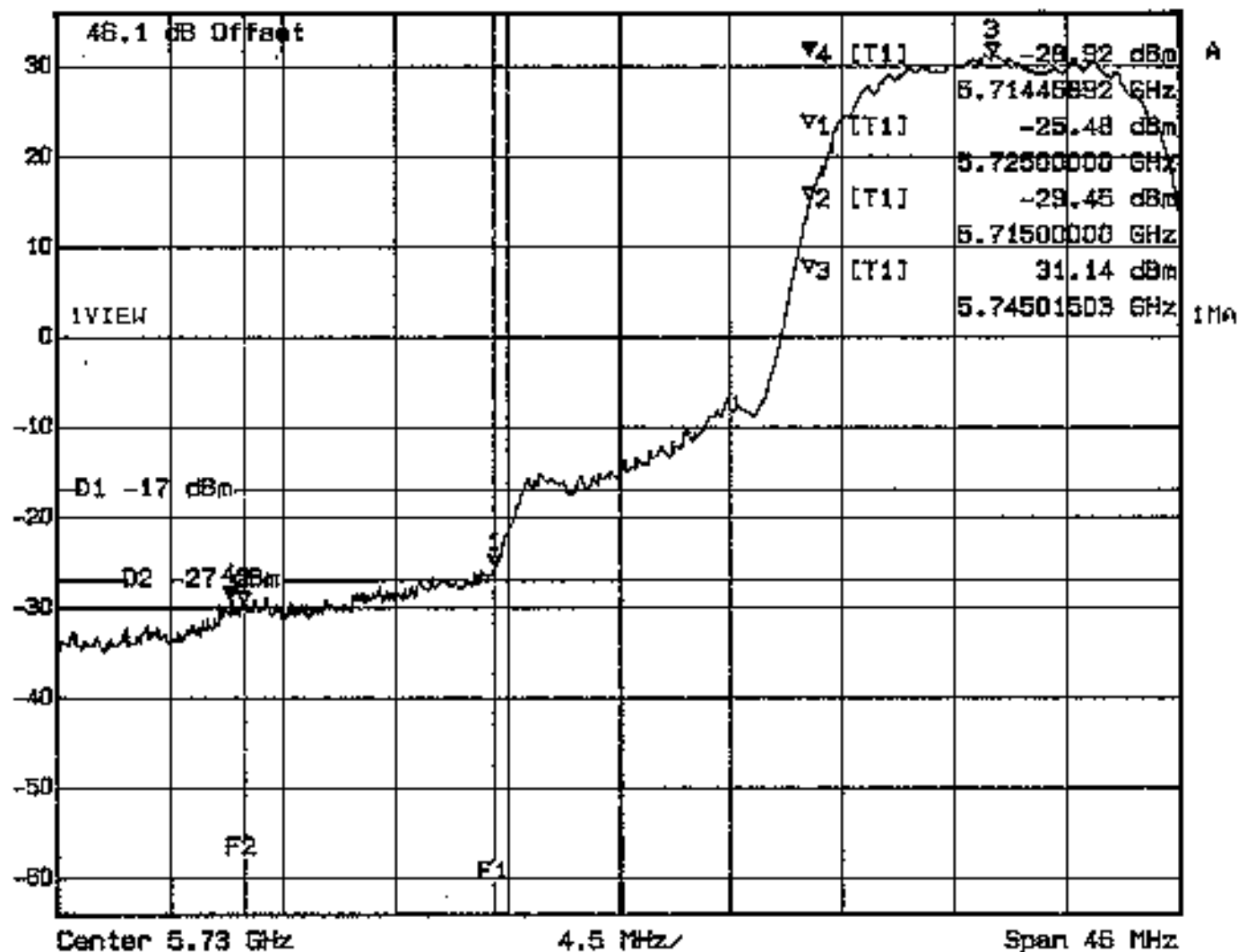
Comment A: Frequency Stability FCC 15.407 CH 10 6PH/42151A/107

T-10.0 Vnom

Date: 19.JUN.2001 16:55:44



Ref Lvl 36.1 dBm  
Marker 4 [T1] -28.92 dBm  
5.71445892 GHz  
RBW 1 MHz  
VBW 1 MHz  
SWT 5 ms  
RF Att 0 dB  
Unit dBm



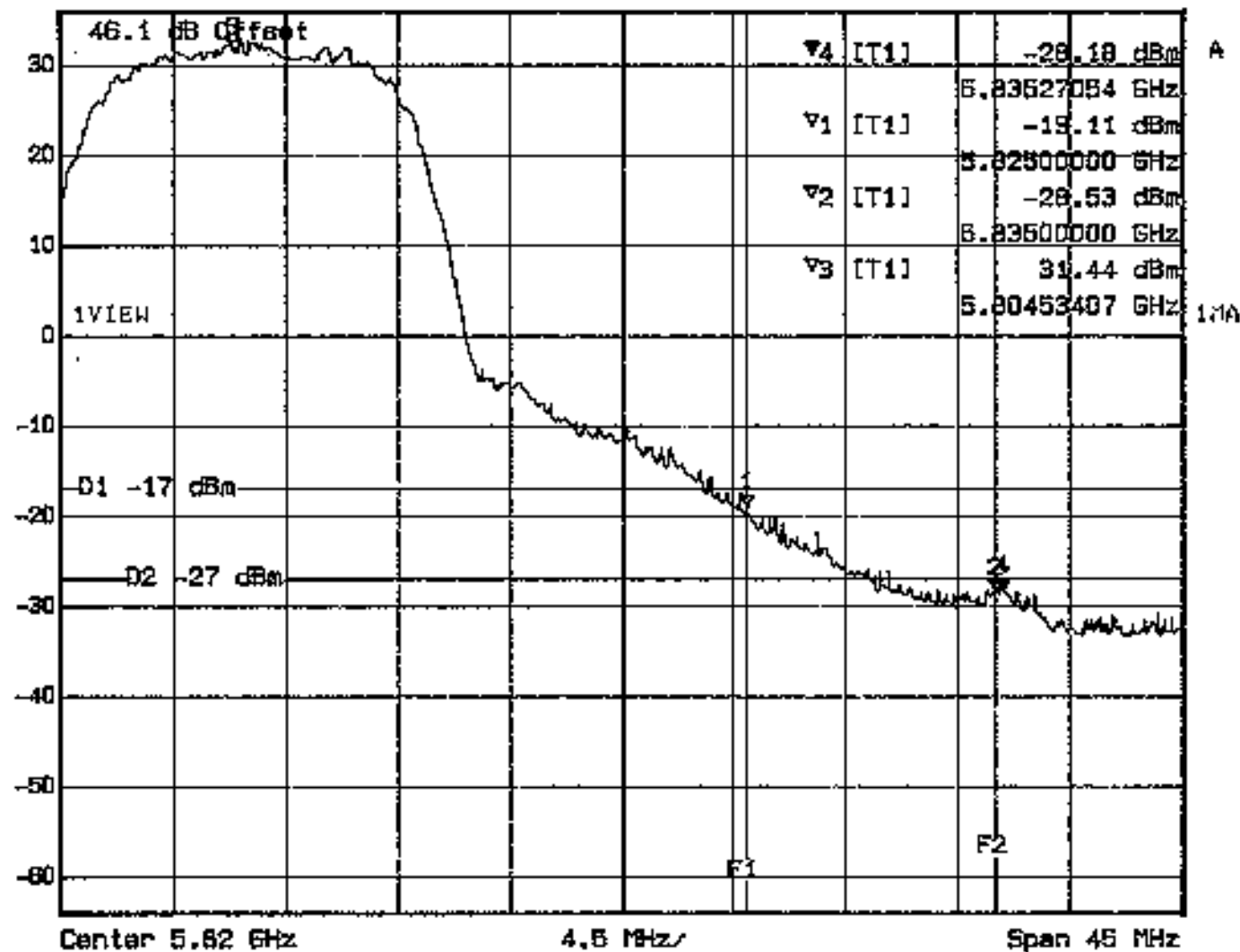
Comment A: Frequency Stability FCC 15.407 CH 10 GPH/42151A/1028  
T 0.0 Vnom

Date: 19.JUN.2001 18:00:17

8  
Bk 19/6/01



Marker 4 [T1]  
Ref Lvl 35.1 dBm  
-28.18 dBm  
5.83527054 GHz  
RBW 1 MHz  
VBW 1 MHz  
SMT 5 ms  
RF Att 0 dB  
Unit dBm



Comment A: Frequency Stability FCC 15.407 CH 14 BPH/42151A/109

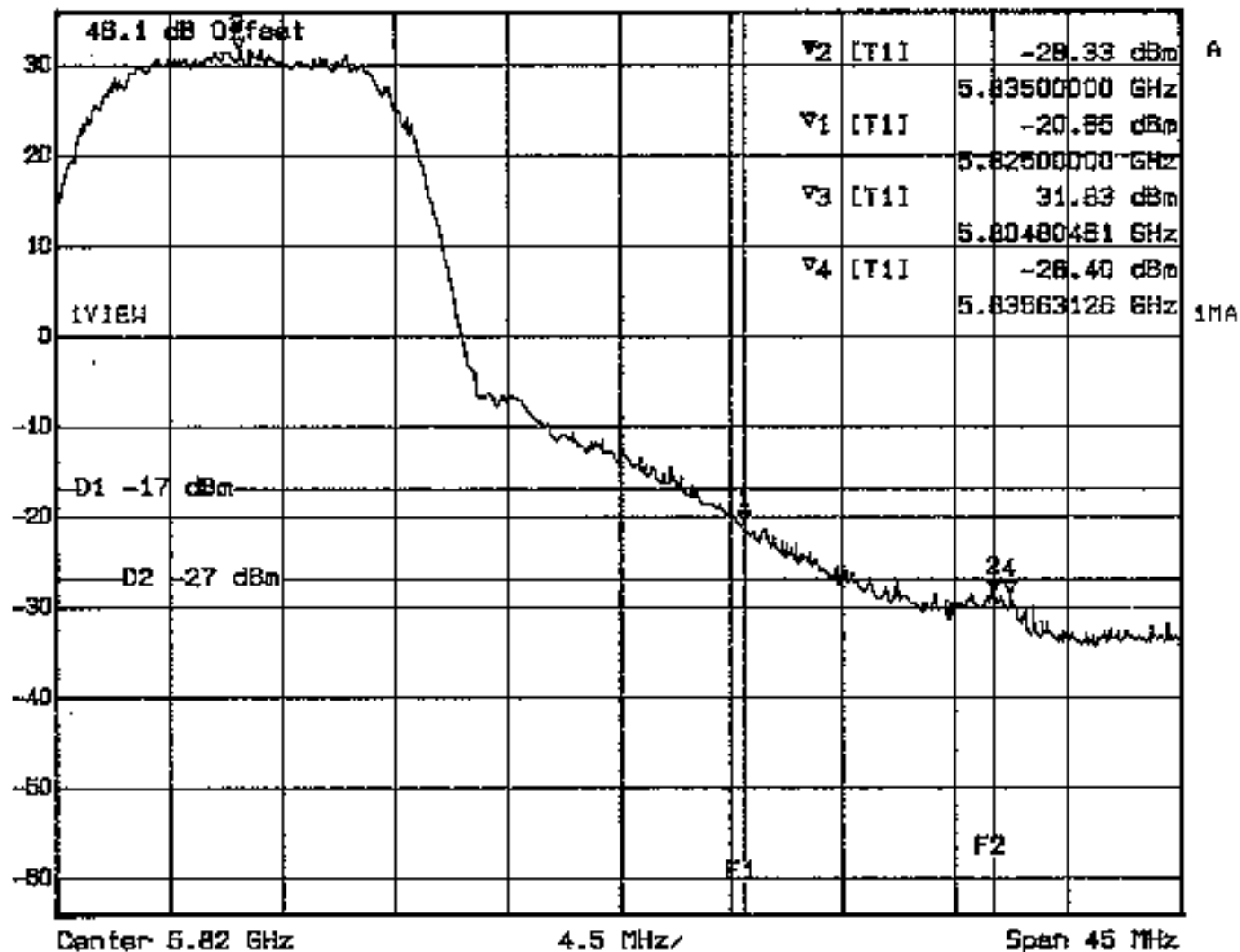
T 0.0 Vnom

Date: 19.JUN.2001 18:32:51





Ref Lvl 36.1 dBm  
Marker 2 [T1] -28.33 dBm  
5.83500000 GHz  
RBW 1 MHz  
VBW 1 MHz  
SWT 5 ms  
RF Att 0 dB  
Unit dBm



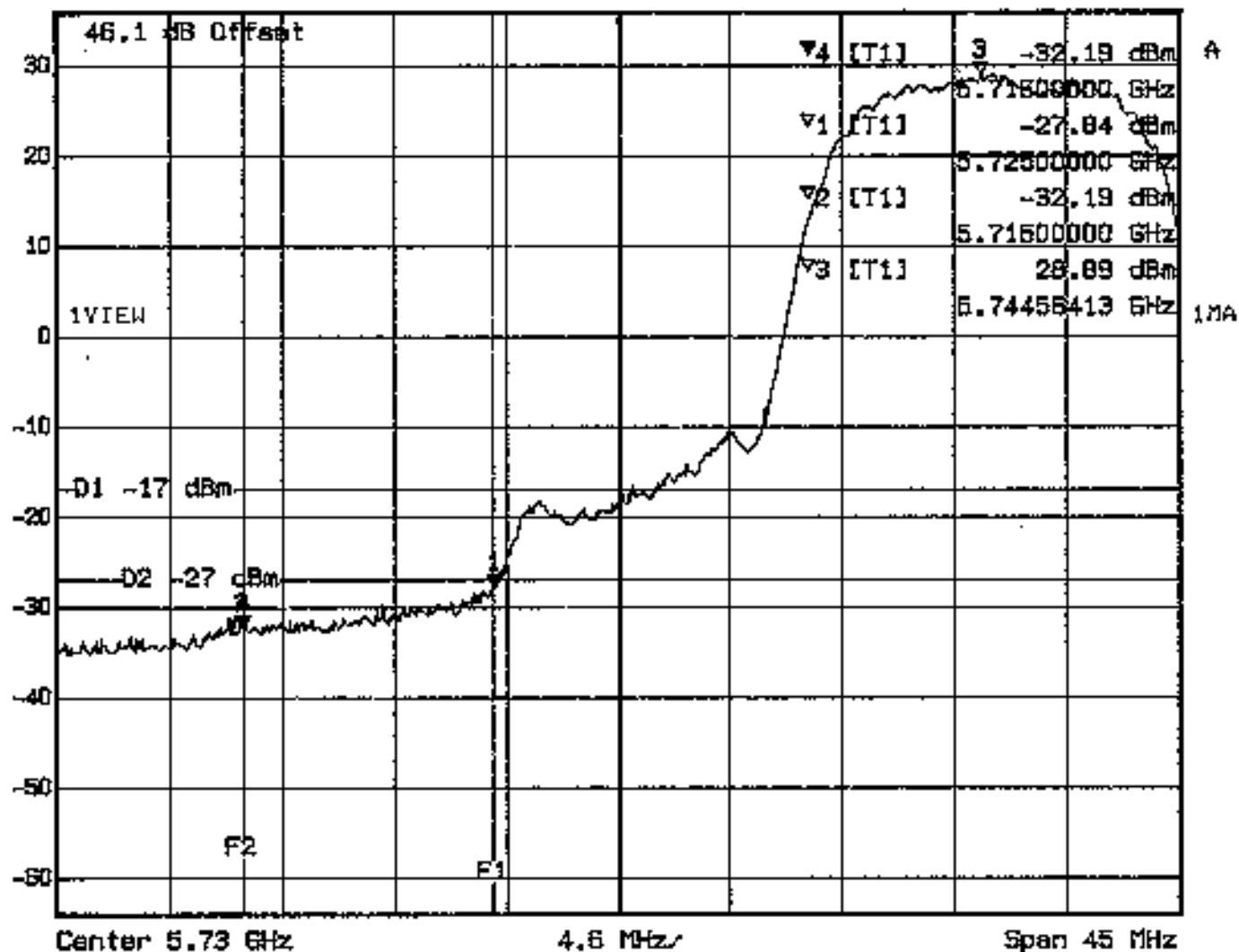
Comment A: Frequency Stability FCC 15.407 CH 14 GPH/42161A/110

T 10.0 Vnom

Date: 19.JUN.2001 19:29:59



Ref Lvl 36.1 dBm  
Marker 4 [T1] -32.19 dBm  
5.71500000 GHz  
RBW 1 MHz  
VBW 1 MHz  
SMT 5 ms  
RF Att 0 dB  
Unit dBm



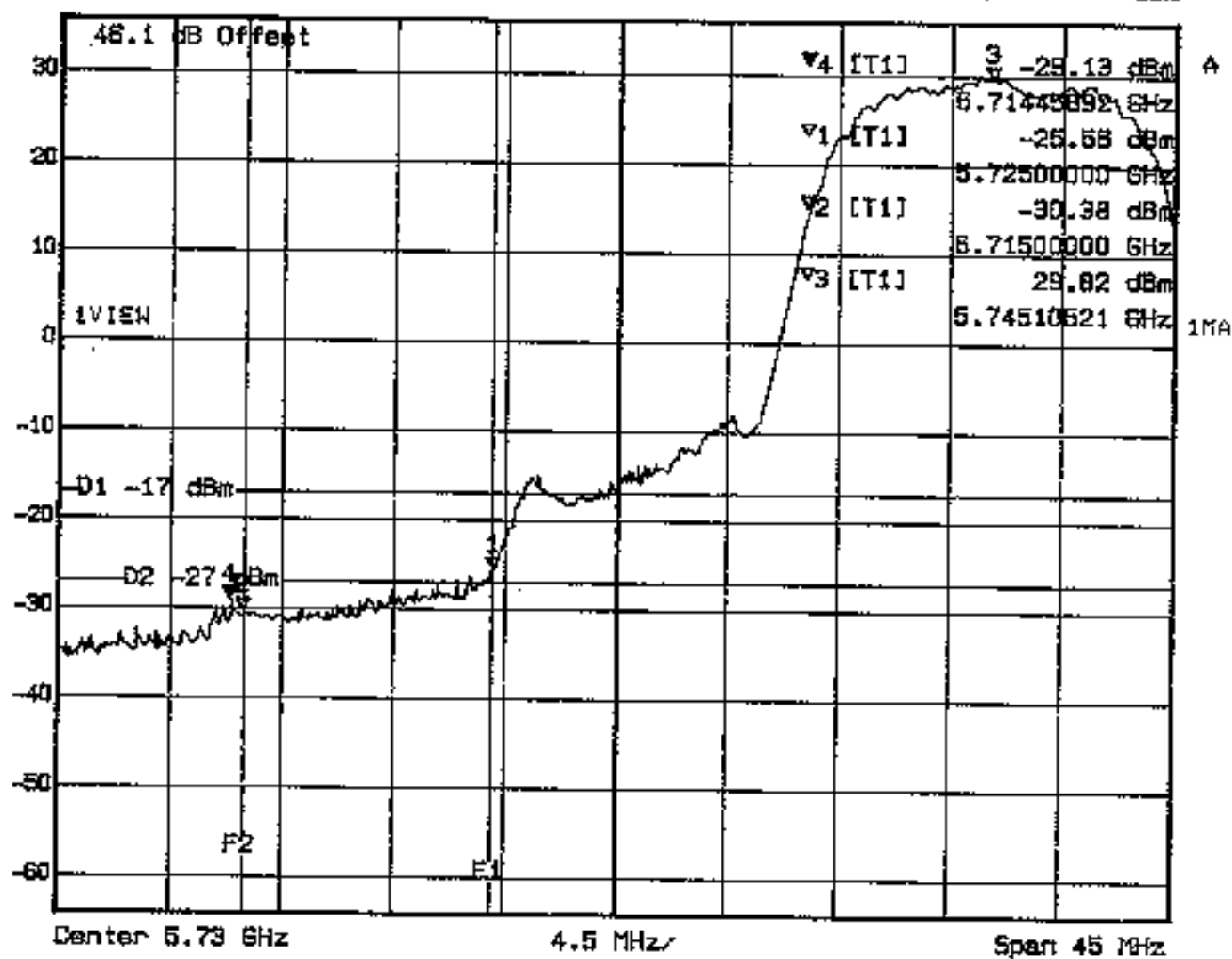
Comment A: Frequency Stability FCC 15.407 CH 10 6PH/42151A/111

T 10.0 Vnom

Date: 19.JUN.2001 19:52:11



Ref Lvl 36.1 dBm  
Marker 4 [T1] -29.13 dBm  
RBW 1 MHz  
VBW 1 MHz  
RF Att 0 dB  
SWT 5 ms  
Unit dBm



Comment A: Frequency Stability FCC 15.407 CH 10 GPH/42151A/112

T 20.0 Vnom

Date: 19.JUN.2001 21:24:18



Ref Lvl

36.1 dBm

Marker 4 [T1]

-30.05 dBm

5.83554108 GHz

RBW

1 MHz

VBW

1 MHz

SWT

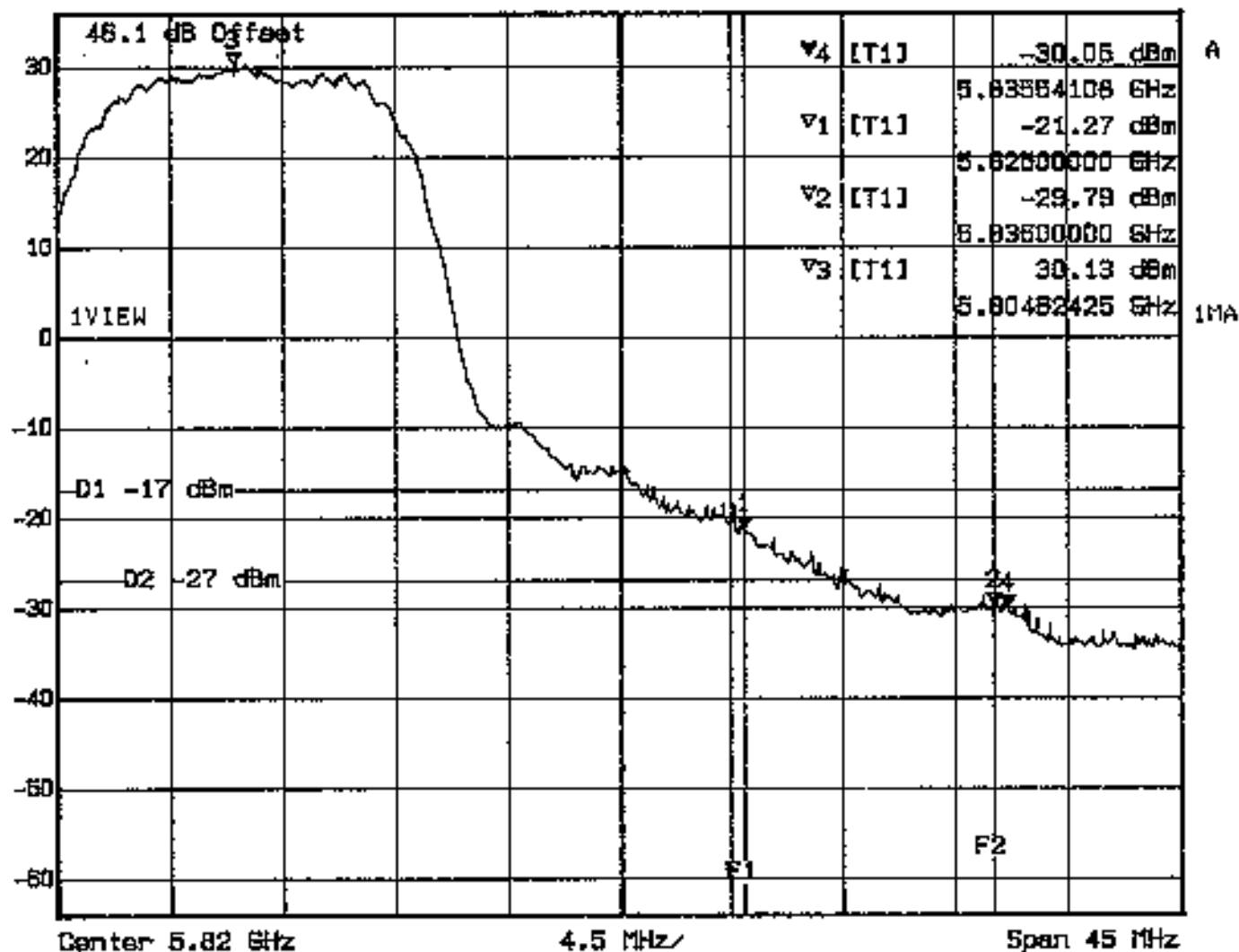
5 ms

RF Att

0 dB

Unit

dBm



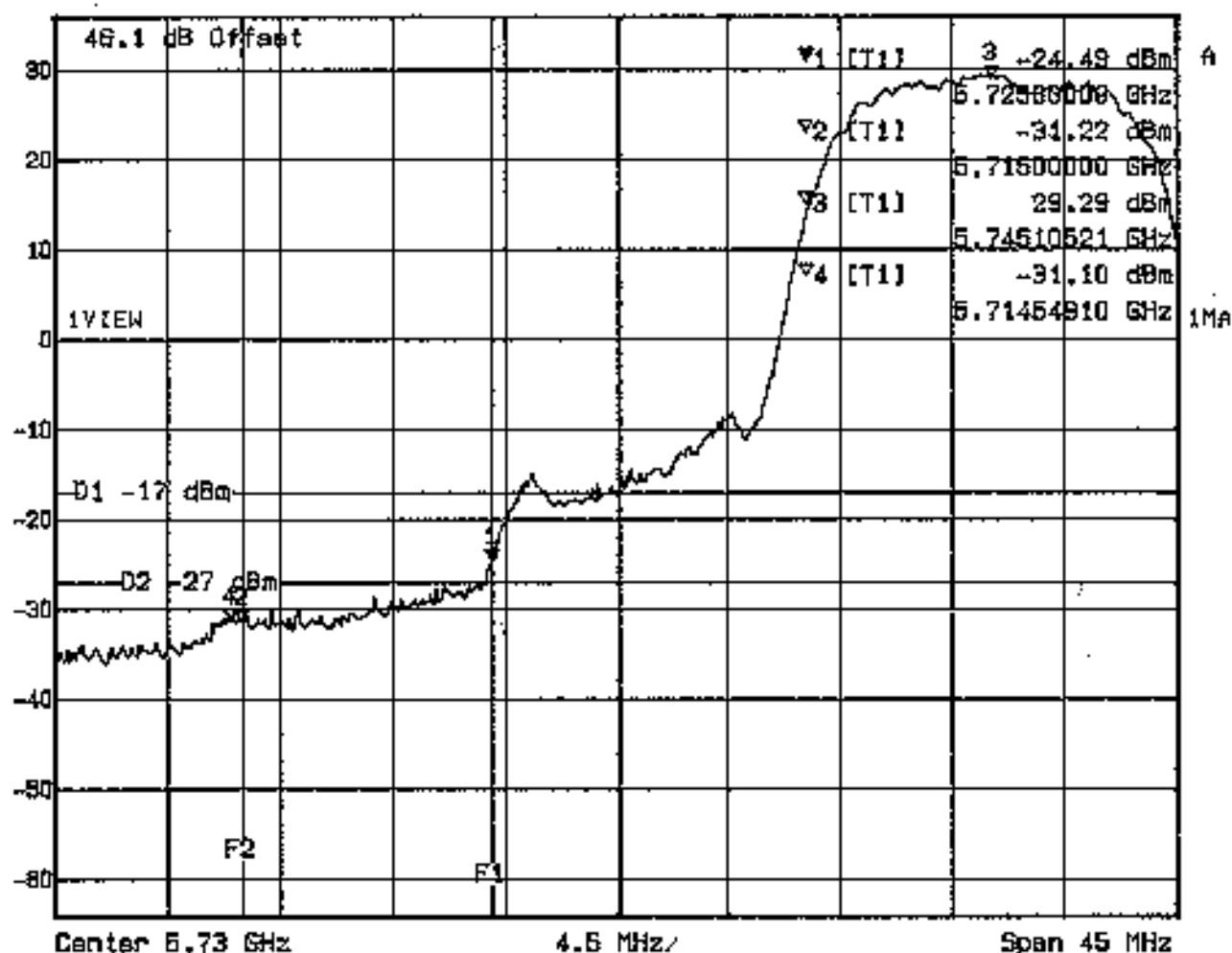
Comment A: Frequency Stability FCC 15.407 CH 14 6PH/42151A/113

T 20.0 Vnom

Date: 19.JUN.2001 21:50:05



Marker 1 [T1] RBW 1 MHz RF Att 0 dB  
Ref Lvl -24.49 dBm VBN 1 MHz  
36.1 dBm 5.72500000 GHz SWT 5 ms Unit dBm

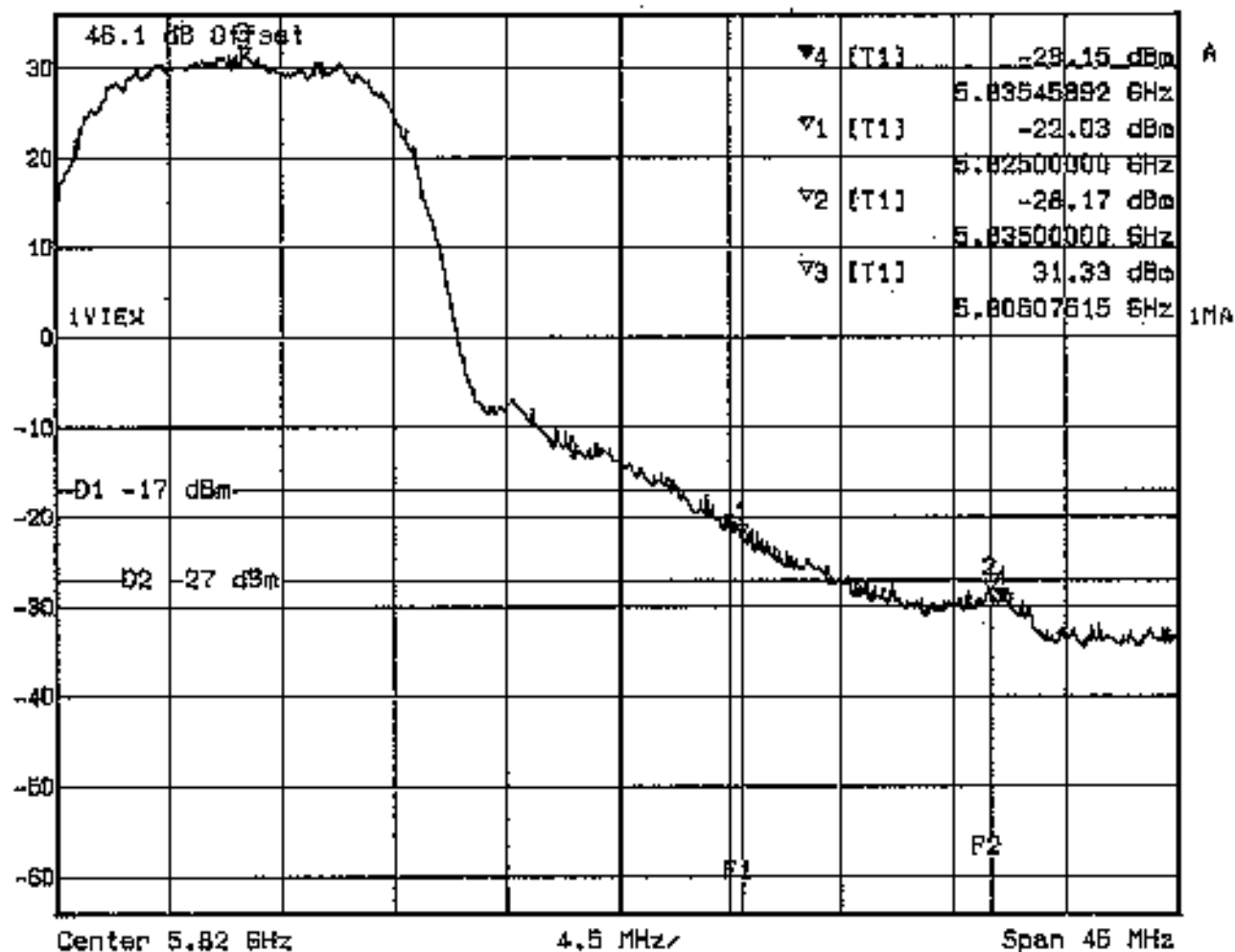


Comment A: FREQUENCY STABILITY FCC 15.467 CH 10 6PH/42151A/114  
T30.0 Vnom

Date: 20.JUN.2001 15:11:08



Ref Lvl 36.1 dBm  
Marker 4 [T1] -29.15 dBm  
5.83545892 GHz  
RBW 1 MHz  
VBW 1 MHz  
SMT 5 ma  
RF Att 0 dB  
Unit dBm



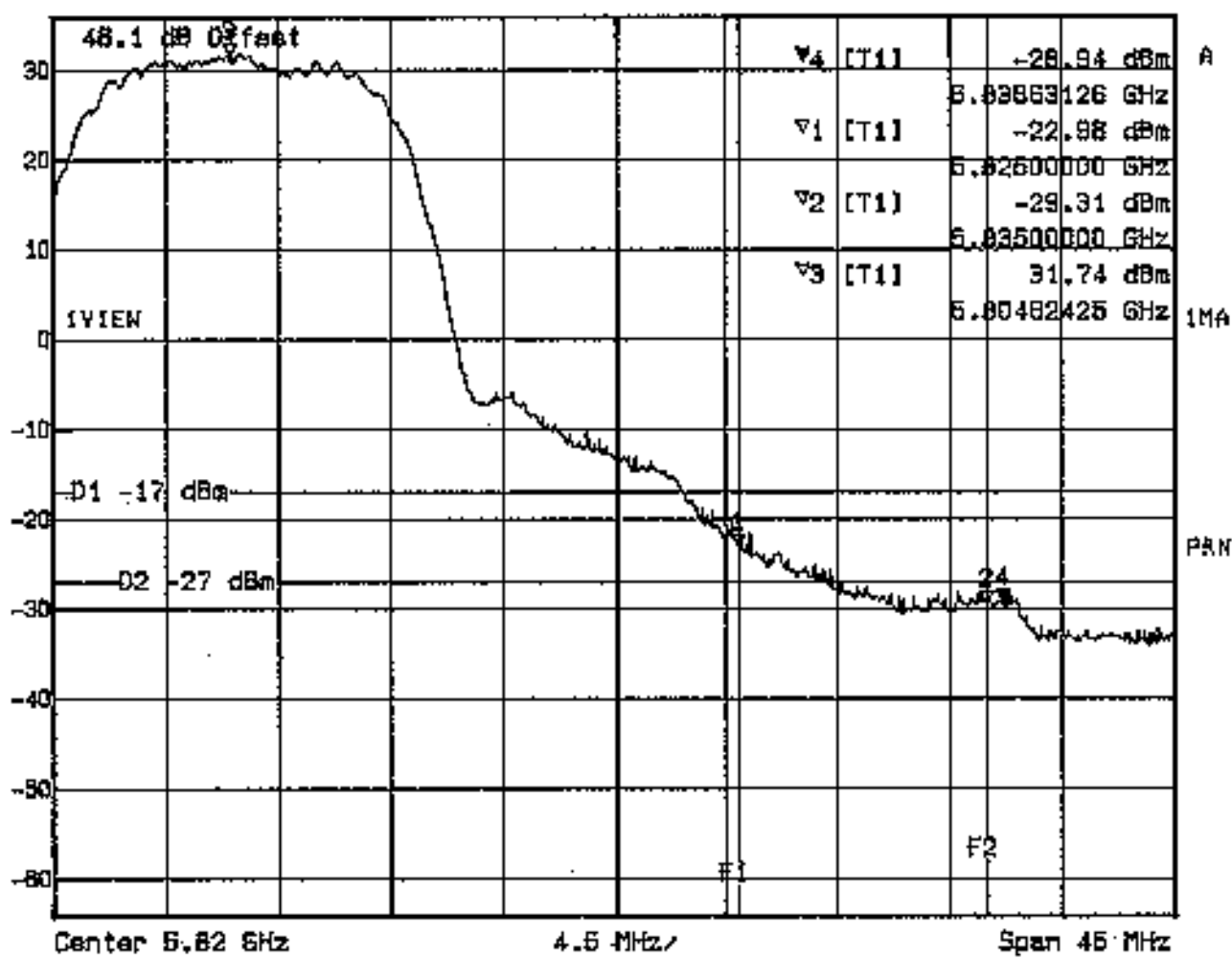
Comment A: FREQUENCY STABILITY FCC 15.407 CH 14 GPH/42151A/115

T30.0 VNON

Date: 20.JUN.2001 15:19:12



Marker 4 [T1] RBW 1 MHz RF Att 0 dB  
Ref Lvl -28.94 dBm VBN 1 MHz  
36.1 dBm 5.83563126 GHz SWT 5 ms Unit dBm



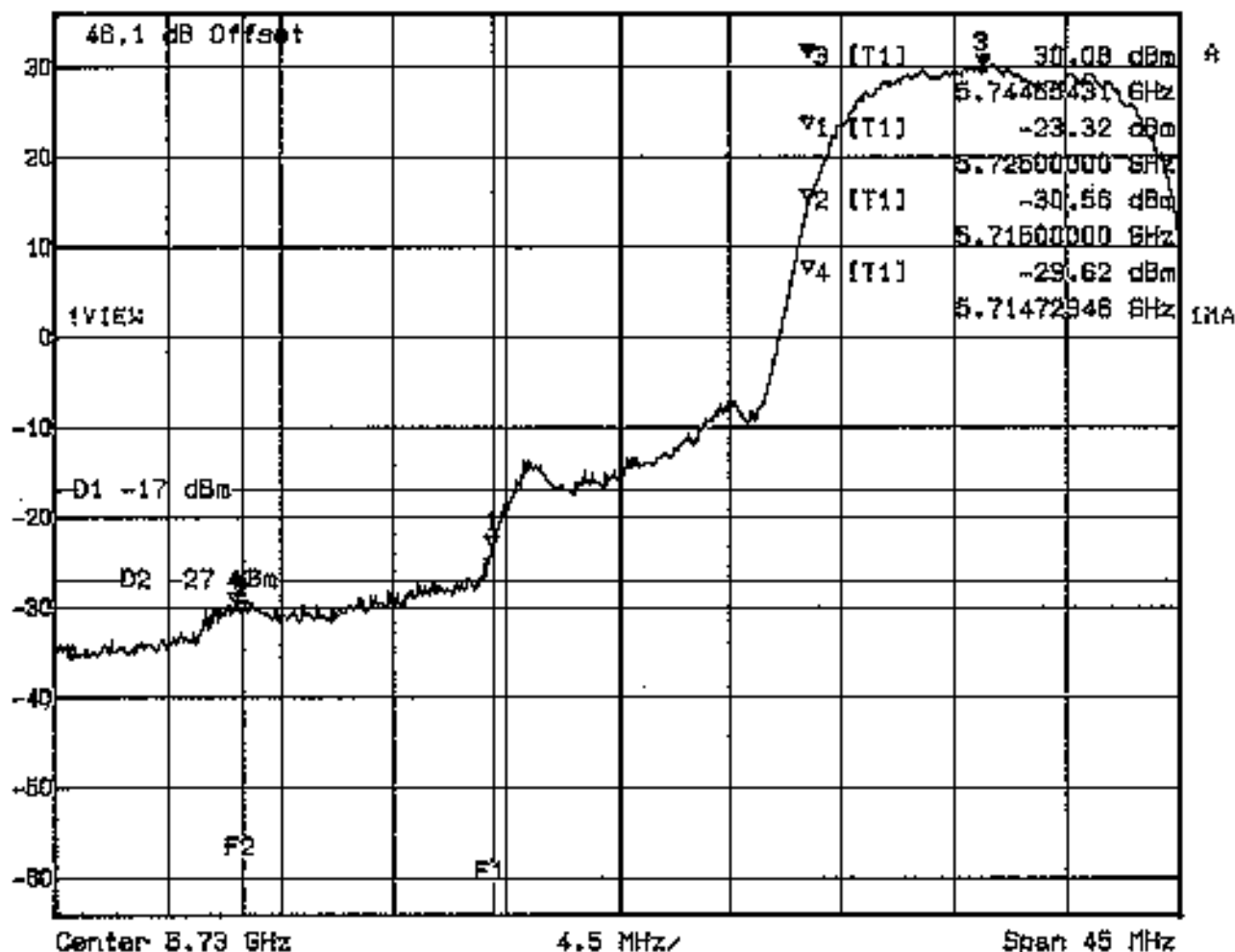
Comment A: FREQUENCY STABILITY FCC 15.407 CH 10 BPH/42151A/118  
T40.0 Vnom

Date: 20 JUN 2001 17:23:28

BK 2/6/01



Ref Lvl 38.1 dBm  
Marker 3 [T1] 30.08 dBm  
5.74465431 GHz  
RBW 1 MHz  
VBW 1 MHz  
SWT 5 ms  
RF Att 0 dB  
Unit dBm



Comment A: FREQUENCY STABILITY FCC 15.407 CH 10 GPH/42151A/11A *f 7*

Date: 20 JUN. 2001 16:45:51

*8/2/01*

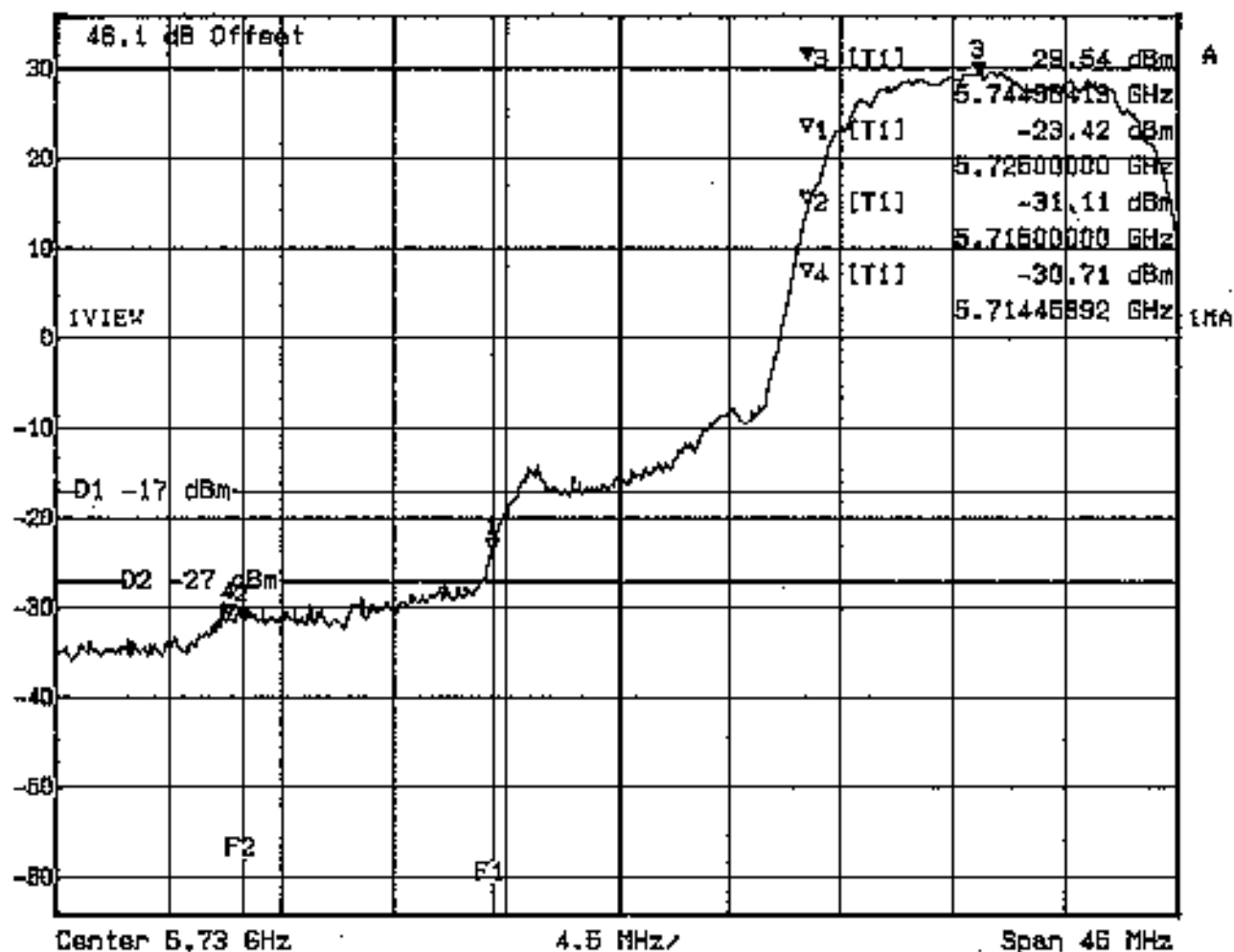




Ref Lvl  
36.1 dBm

Marker 3 [T1]  
29.54 dBm  
5.74458413 GHz

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 5 ms Unit dBm

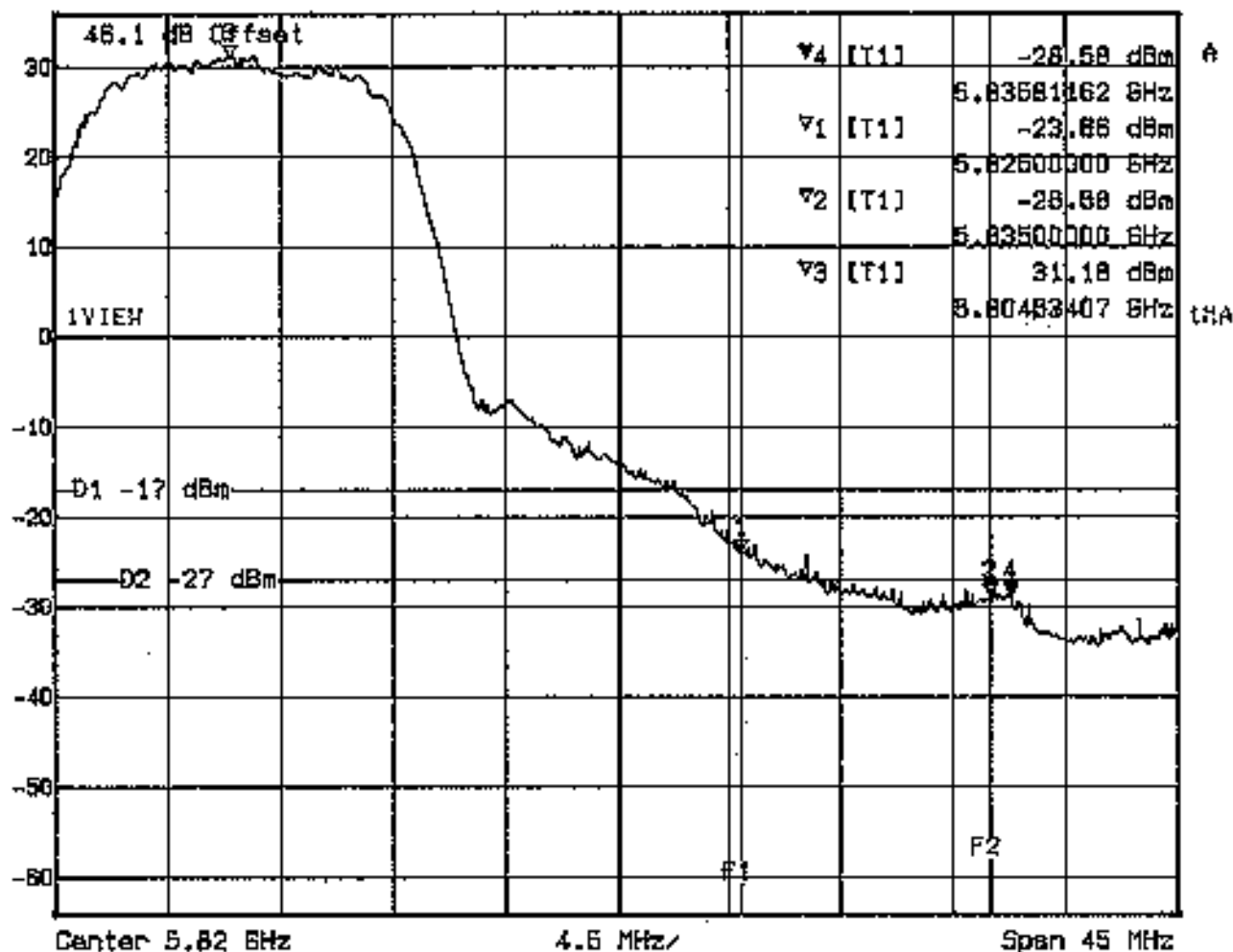


Comment A: FREQUENCY STABILITY FCC 15.407 CH 10 GPH/42151A/118  
T50.0 Vnom

Date: 20 JUN 2001 19:22:33



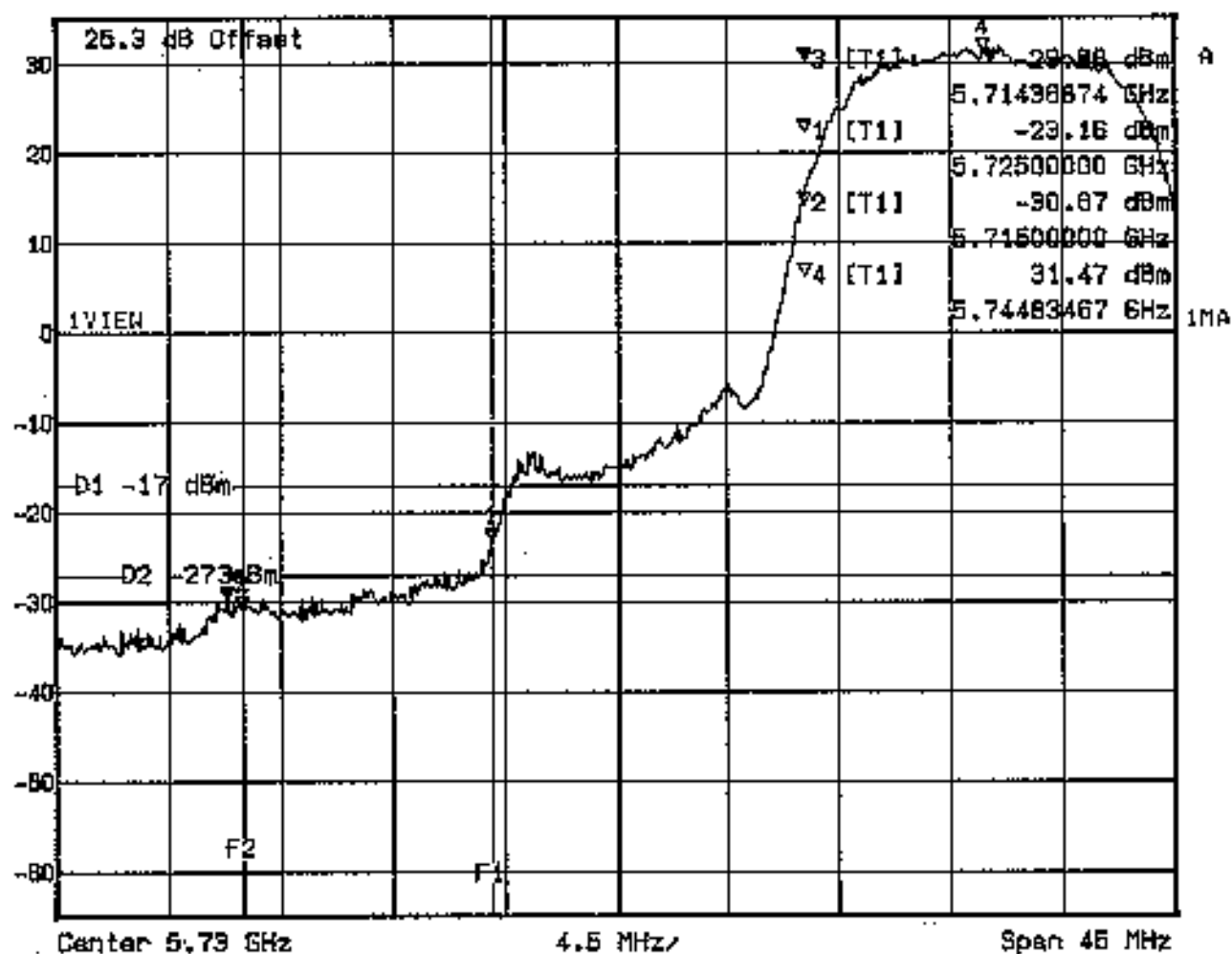
Ref Lvl 36.1 dBm  
Marker 4 [T1] -28.58 dBm  
RBW 1 MHz  
VBW 1 MHz  
SWT 8 ms  
RF Att 0 dB  
Unit dBm



Comment A: FREQUENCY STABILITY FCC 15.407 CH 14 GPH/42151A/119  
T50.0 Vnom  
Date: 20 JUN 2001 18:48:09



Marker 3 [T1] RBW 1 MHz RF Att 20 dB  
Ref Lvl -29.68 dBm VBW 1 MHz  
35.3 dBm 5.71436874 GHz SMT 5 ms Unit dBm



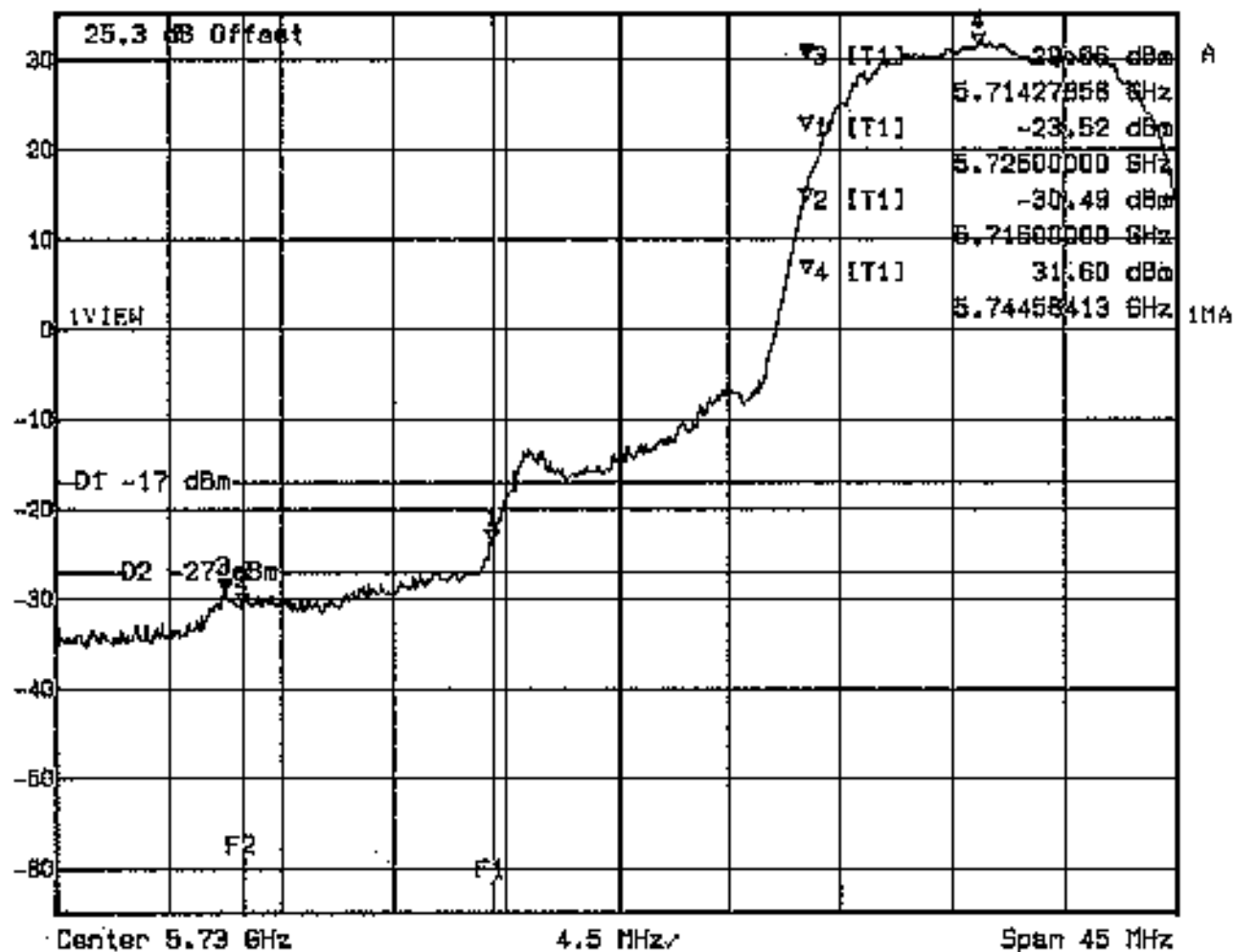
Comment A: BANDEDGE MEASUREMENTS FCC 15.407 CH 10 6FH/42151A/200

Thom Vnom

Date: 18 JUN 2001 9:52:27



Marker 3 [T1]      RBW      1 MHz      RF Att      20 dB  
Ref Lvl      -29.06 dBm      VBW      1 MHz  
35.3 dBm      5.71427856 GHz      SWT      6 ms      Unit      dBm



Comment A: BANDEDGE MEASUREMENTS FCC 15.407 CH 10 GPH/42151A/201

Thom Vlow

Date: 18.JUN.2001 10:04:13



Ref Lvl

38.3 dBm

Marker 3 [T1]

-30.61 dBm

RBW

1 MHz

RF Att

20 dB

VBW

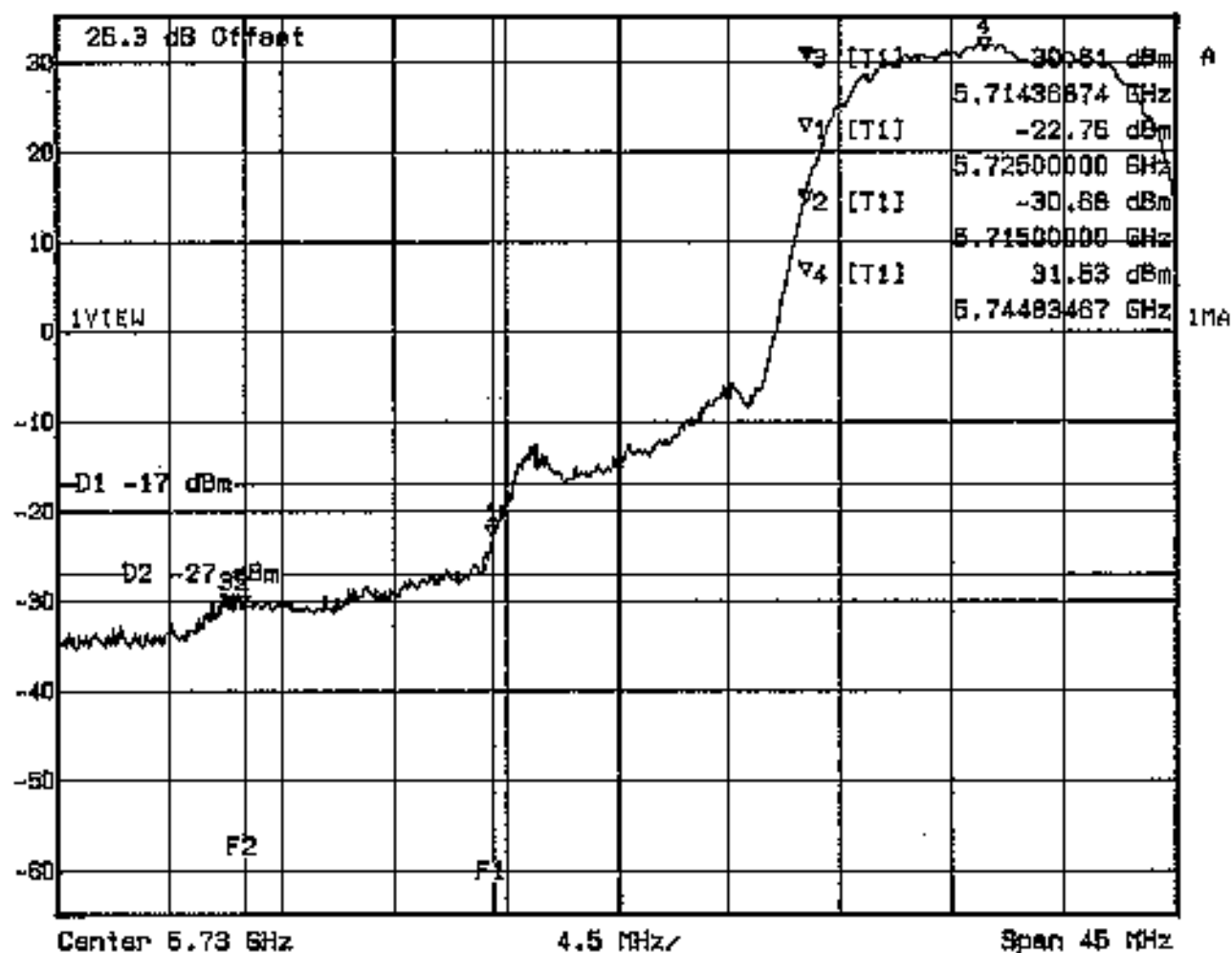
1 MHz

SWT

5 ms

Unit

dBm



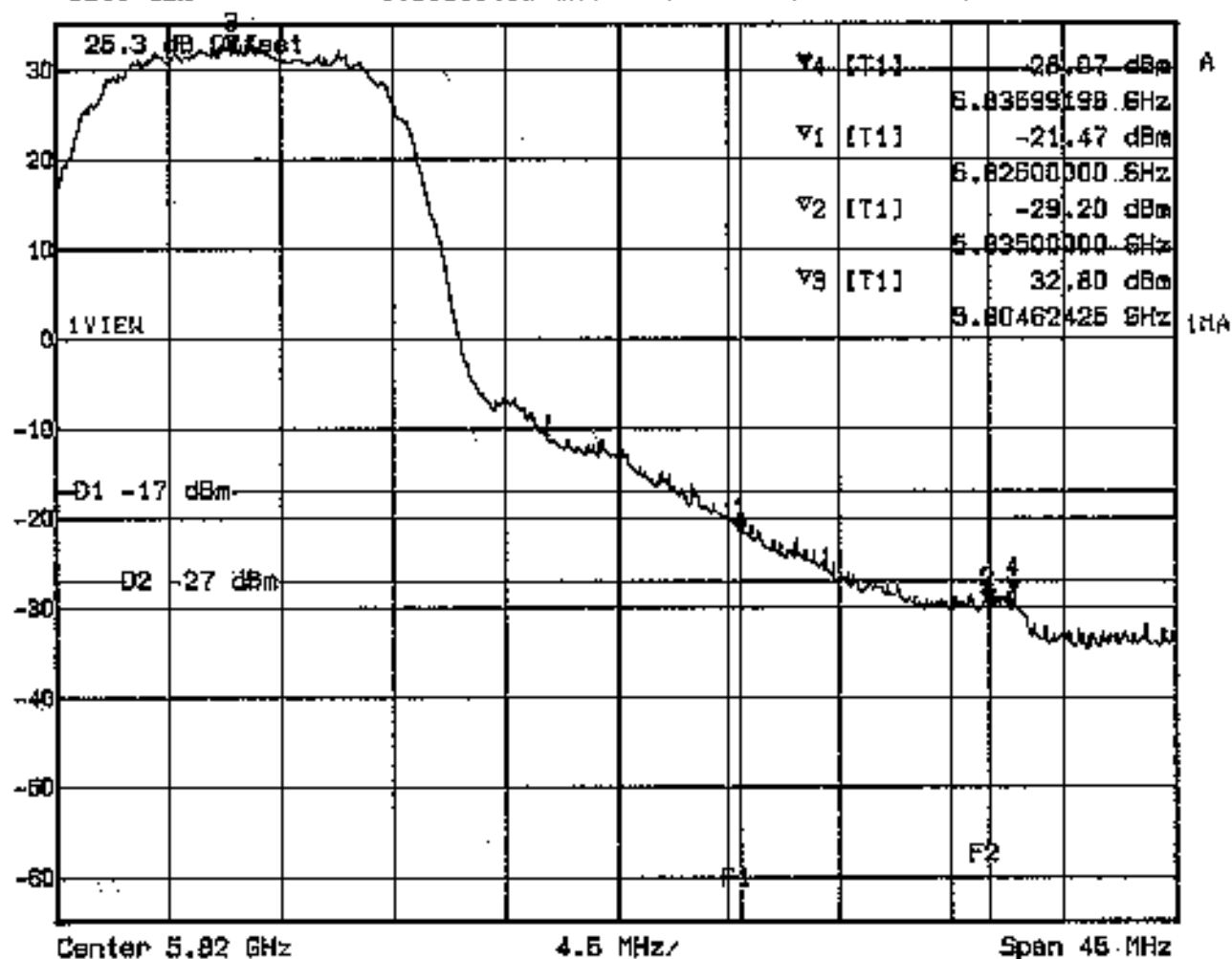
Comment A: BANDEDGE MEASUREMENTS FCC 15.407 CH 10 GPH/42161A/202

From Vhigh

Date: 18 JUN 2001 11:02:52



Marker 4 [T1] RBW 1 MHz RF Att 20 dB  
Ref Lvl -28.07 dBm VBW 1 MHz  
35.3 dBm 5.83599198 GHz SWT 5 ms Unit dBm



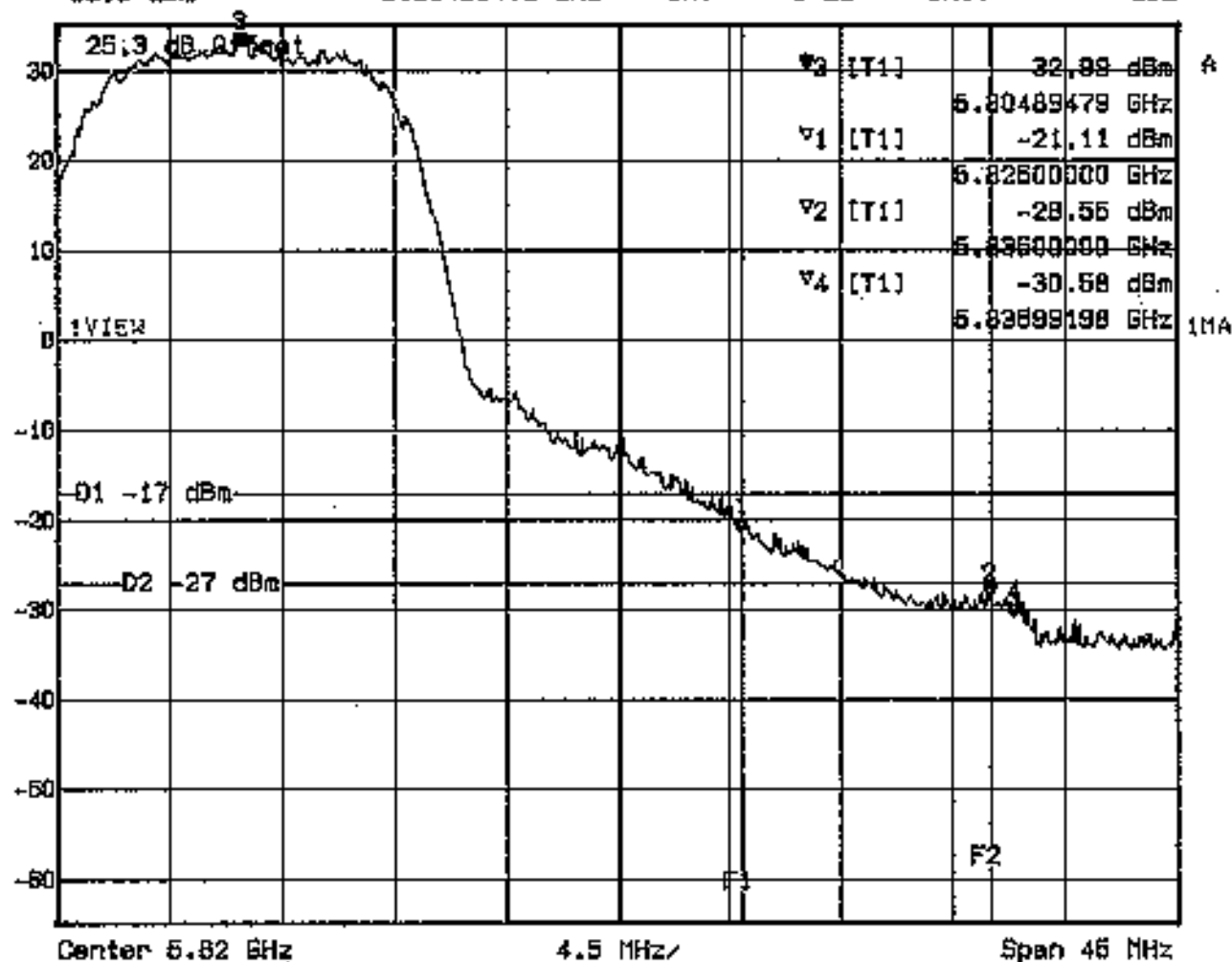
Comment Ar BANDEDGE MEASUREMENTS FCC 15.407 CH 14 6PH/42151A/203

From Vhigh

Date: 18 JUN 2001 11:33:05



Ref Lvl 35.3 dBm  
Marker 3 [T1] 32.99 dBm  
5.80489479 GHz  
RBW 1 MHz  
VBW 1 MHz  
SWT 5 us  
RF Att 20 dB  
Unit dBm



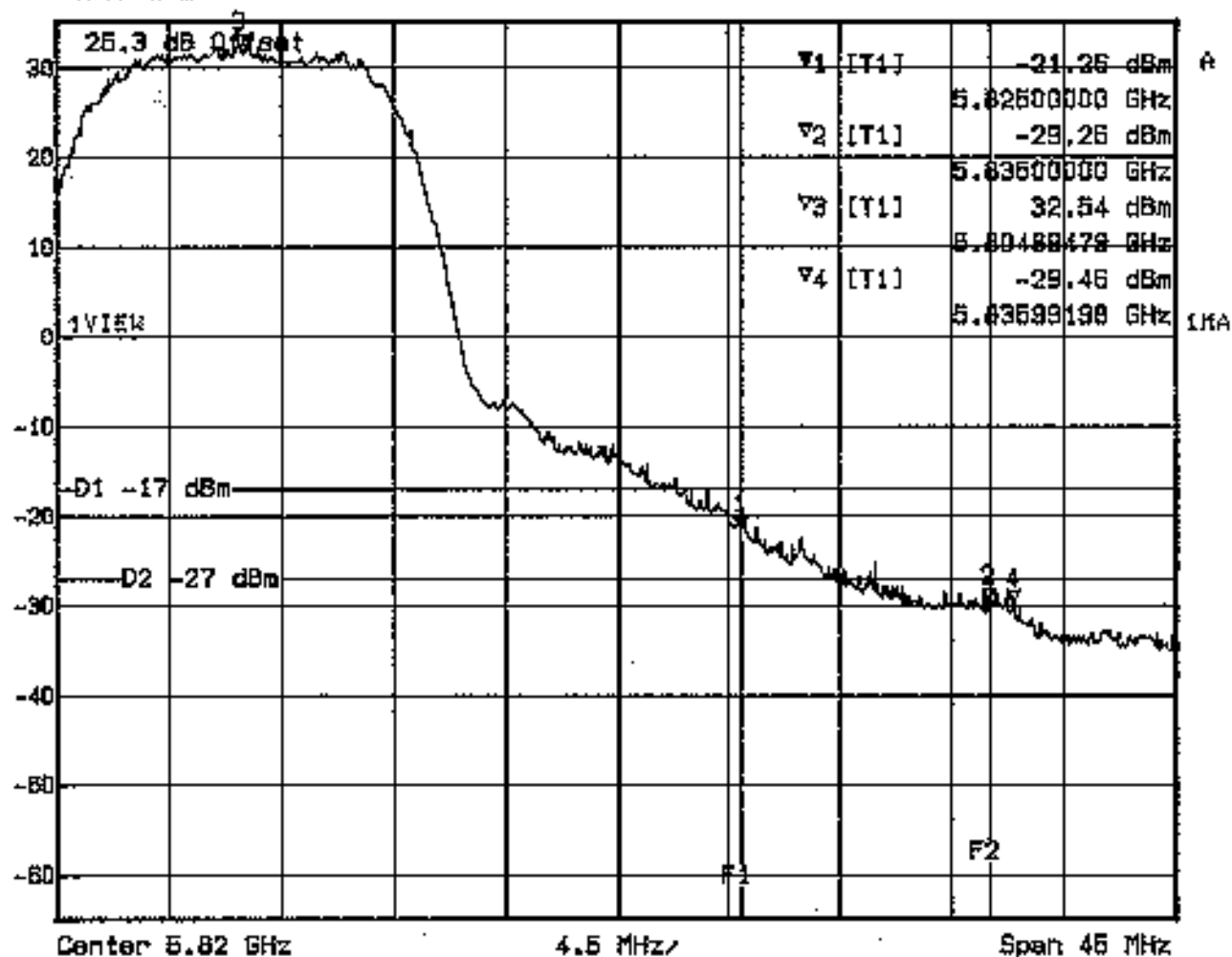
Comment A: BANDEDGE MEASUREMENTS FCC 15.407 CH 14 GPH/42151A/204

Thom Vnom

Date: 18.JUN.2001 12:02:18



Ref Lvl 35.3 dBm Marker 1 [T1] -21.26 dBm RBW 1 MHz RF Att 20 dB  
Unit dBm



Comment A: BANDEDGE MEASUREMENTS FCC 15.407 CH 14 GHz/42151A/205

From View

Date: 18.JUN.2001 12:34:35





LVLOFF

Res.Bw 300.0 kHz [3dB]

Vid.Bw

1 MHz

Date 19.Jun.'01 Time 14:21:08

Ref.Lvl 35.00 dBm Marker 29.39 dBm

CF.Stp

4.000 MHz

RF.Att

25 dB

5.80251 GHz

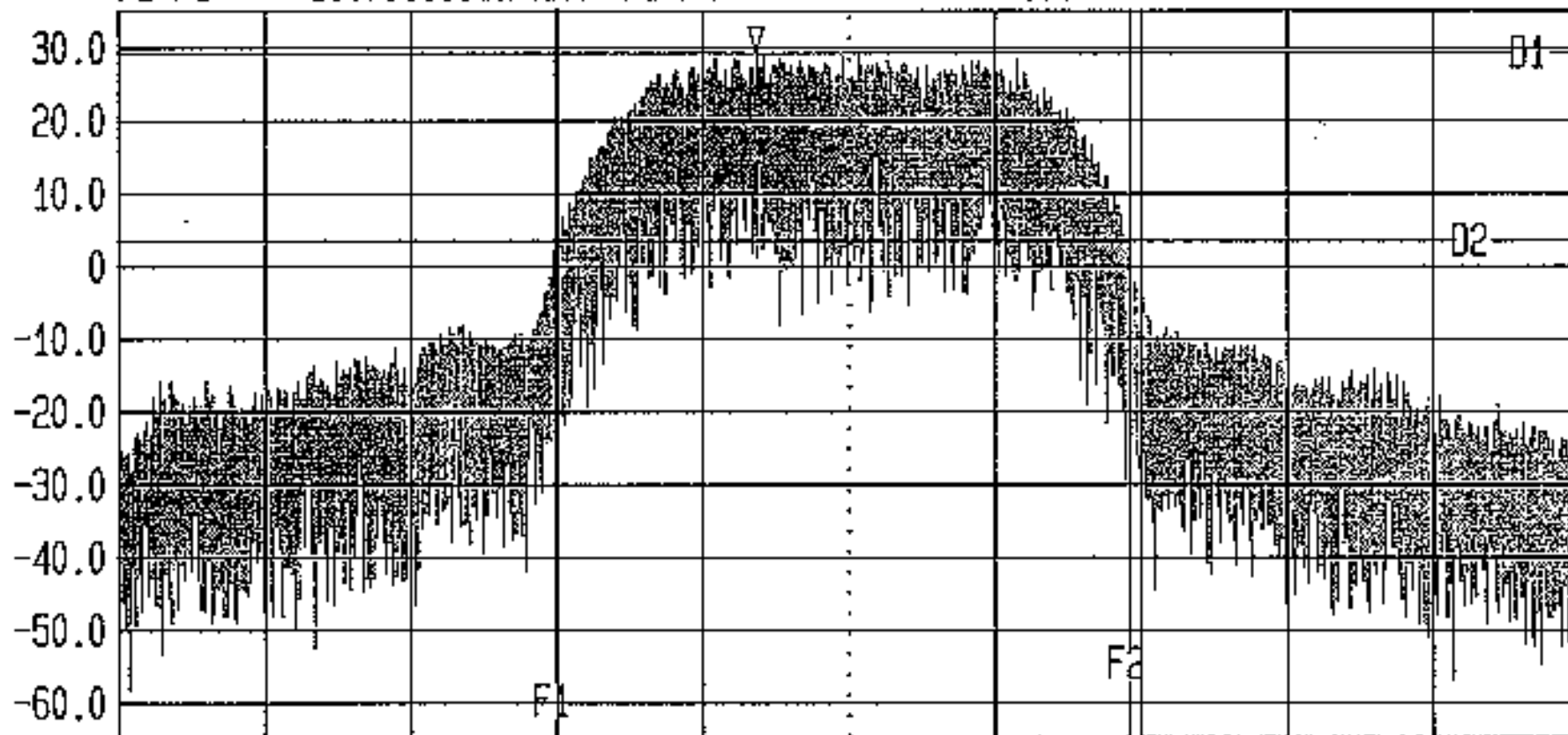
Unit

[dBm]

F1 5.7969555559 GHz D1 29.39 dBm

F2 5.81268888891 GHz D2 3.39 dBm

F2-F1 -15.73333332 MHz D1-D2 -26.00 dB

Start  
5.785 GHzSpan  
40 MHzCenter  
5.805 GHzSweep  
20 msStop  
5.825 GHz

EMISSION BANDWIDTH FCC 15.407

TOP CHANNEL ANTENNA POL VERTICAL

ANTENNA PORT MEASUREMENT

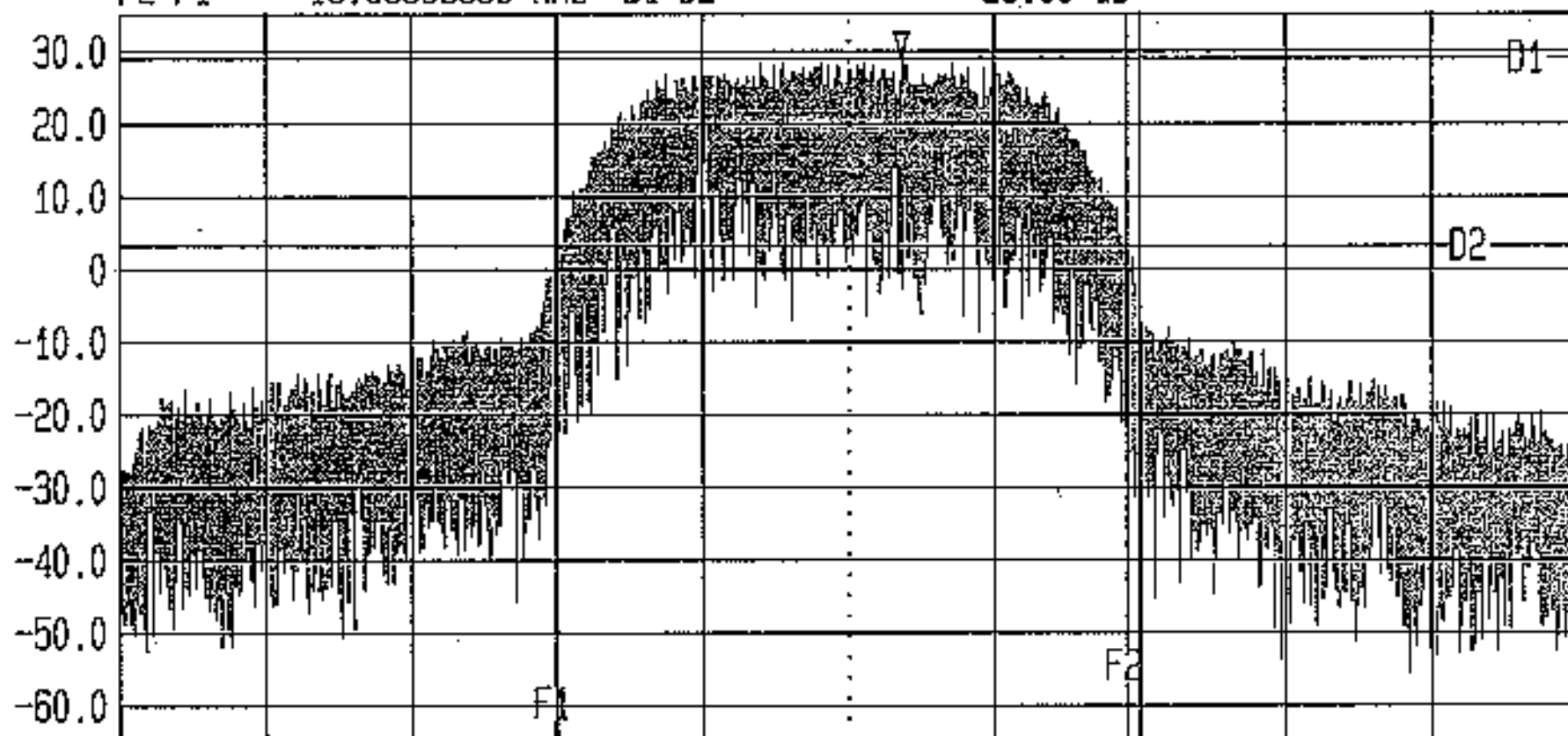
GPH/42151A/400



LVLOFF  
Date 19.Jun.'01 Time 14:27:46  
Ref.Lvl 35.00 dBm  
Marker 29.14 dBm  
5.80651 GHz

Res.Bw 300.0 kHz [3dB] Vid.Bw 1 MHz  
CF.Stp 4.000 MHz RF.Att 25 dB  
Unit [dBm]

F1 5.7969555559 GHz D1 29.14 dBm  
F2 5.8126444445 GHz D2 3.14 dBm  
F2-F1 -15.68888886 MHz D1-D2 -26.00 dB



Start 5.785 GHz Span 40 MHz Center 5.805 GHz Sweep 20 ms Stop 5.825 GHz

EMISSION BANDWIDTH FCC 15.407

TOP CHANNEL ANTENNA POL HORIZONTAL ANTENNA PORT MEASUREMENT

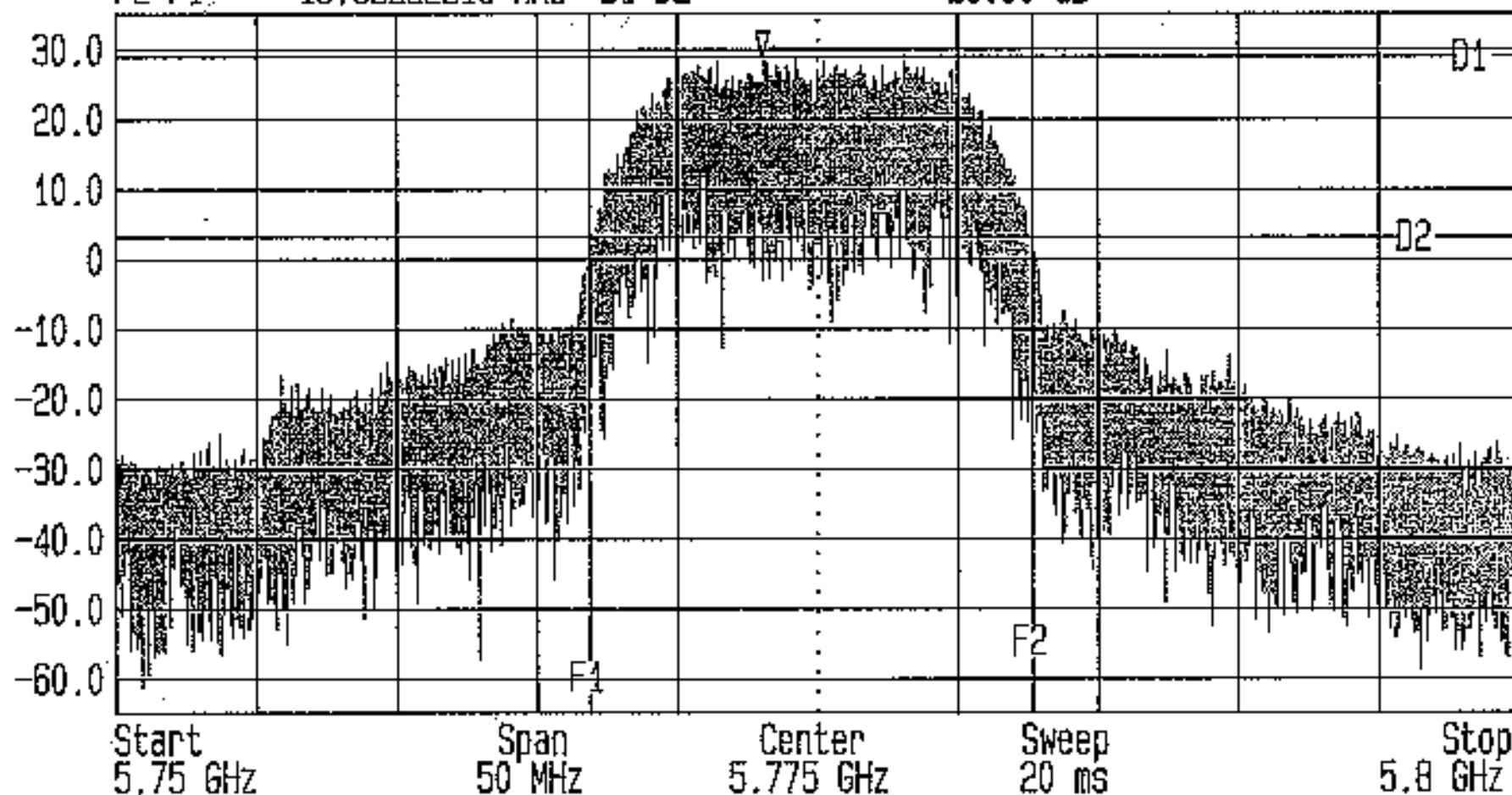
GPH/42151A/401



LVLOFF  
Date 19.Jun.'01 Time 14:34:25  
Ref.Lvl 35.00 dBm  
Marker 29.11 dBm  
5.77311 GHz

Res.Bw 300.0 kHz [3dB] Vid.Bw 1 MHz  
CF.Stp 5.000 MHz RF.Att 25 dB  
Unit [dBm]

F1 5.76690000003 GHz D1 29.11 dBm  
F2 5.78272222218 GHz D2 3.11 dBm  
F2-F1 -15.82222215 MHz D1-D2 -26.00 dB



EMISSION BANDWIDTH FCC 15.407

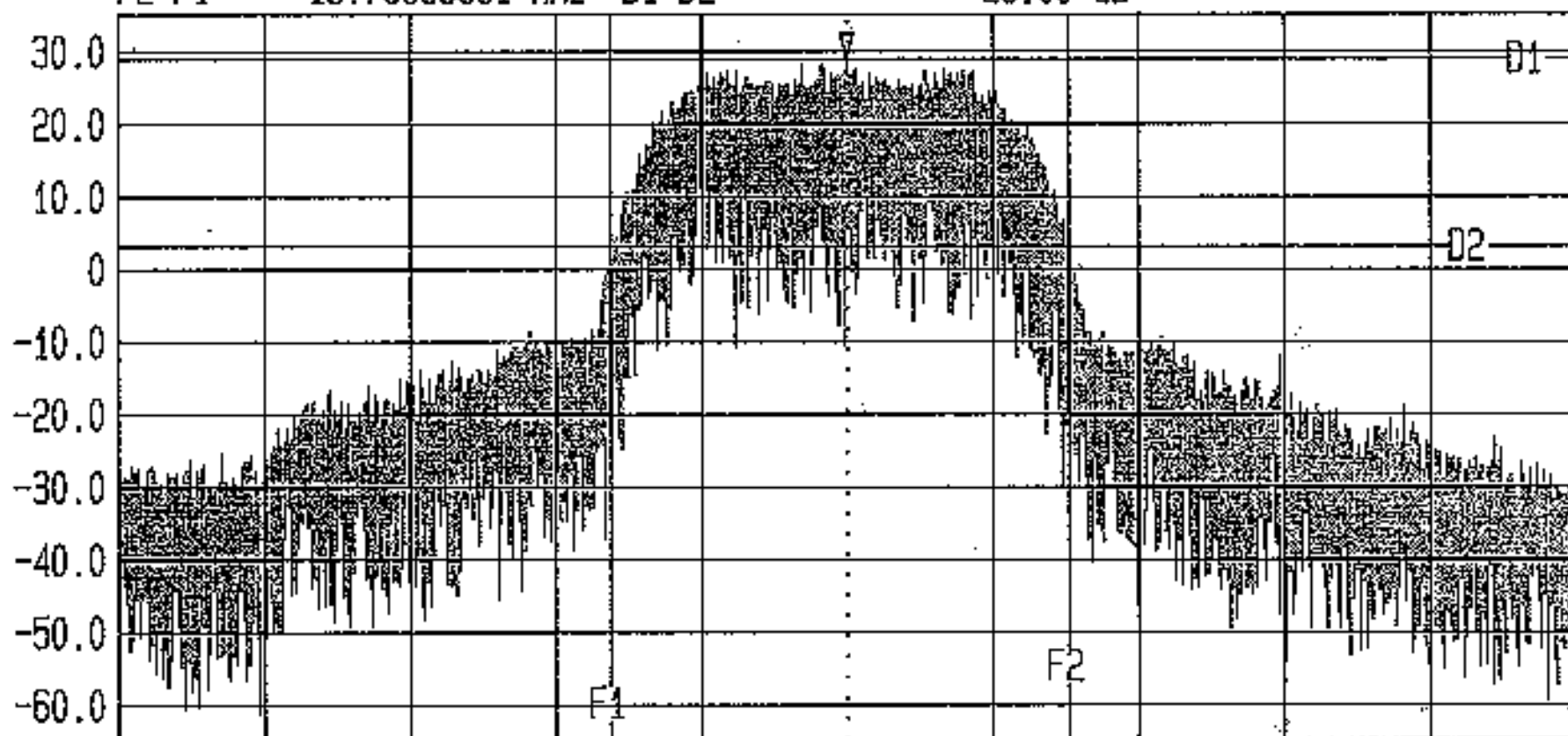
MIDDLE CHANNEL ANTENNA POL HORIZONTAL ANTENNA PORT MEASUREMENT

GPH/42151A/402



LVLOFF  
Date 19.Jun.'01 Time 14:41:08  
Ref.Lvl 35.00 dBm  
Marker 29.14 dBm  
5.77500 GHz  
F1 5.76690000001 GHz D1  
F2 5.78266666662 GHz D2  
F2-F1 -15.76666661 MHz D1-D2

Res.Bw 300.0 kHz [3dB] Vid.Bw 1 MHz  
CF.Stp 5.000 MHz RF.Att 25 dB  
Unit [dBm]



Start 5.75 GHz Span 50 MHz Center 5.775 GHz Sweep 20 ms Stop 5.8 GHz

EMISSION BANDWIDTH FCC 15.407

MIDDLE CHANNEL ANTENNA POL VERTICAL ANTENNA PORT MEASUREMENT

GPH/42151A/403



LVLOFF

Res.Bw 300.0 kHz [3dB]

Vid.Bw

1 MHz

Date 19.Jun.'01 Time 14:47:49

Ref.Lvl 35.00 dBm Marker 28.83 dBm

CF.Stp

5.000 MHz

RF.Att

25 dB

35.00 dBm

5.74311 GHz

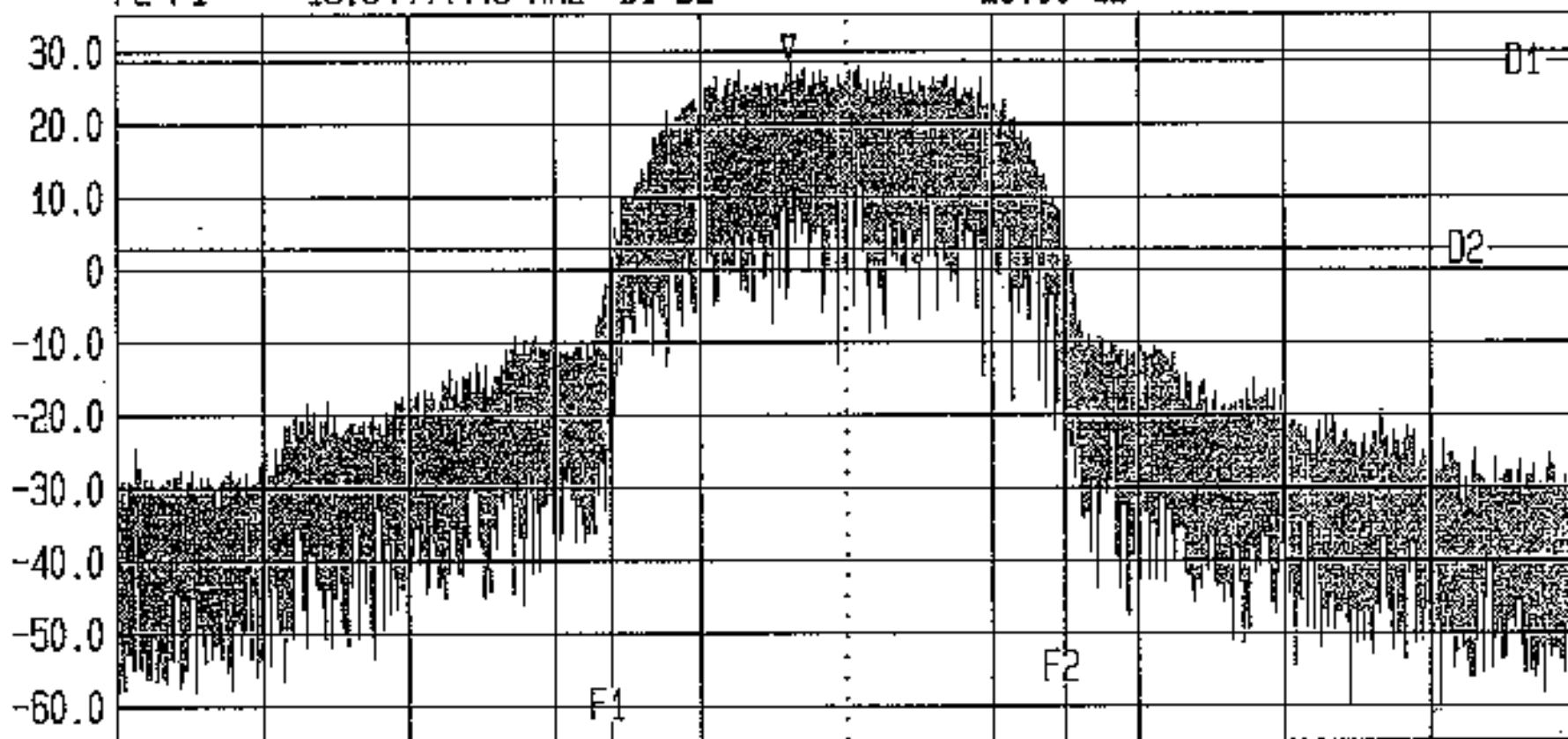
Unit

[dBm]

F1 5.7369555557 GHz D1 28.83 dBm

F2 5.75250000002 GHz D2 2.83 dBm

F2-F1 -15.54444445 MHz D1-D2 -26.00 dB

Start  
5.72 GHzSpan  
50 MHzCenter  
5.745 GHzSweep  
20 msStop  
5.77 GHz

EMISSION BANDWIDTH FCC 15.407

BOTTOM CHANNEL ANTENNA POL VERTICAL ANTENNA PORT MEASUREMENT

GPH/42151A/404



LVLOFF

Res.Bw 300.0 kHz [3dB]

Vid.Bw

1 MHz

Date 19.Jun.'01 Time 14:54:36

Ref.Lvl Marker 29.32 dBm

CF.Stp

5.000 MHz

RF.Att

25 dB

35.00 dBm

5.74311 GHz

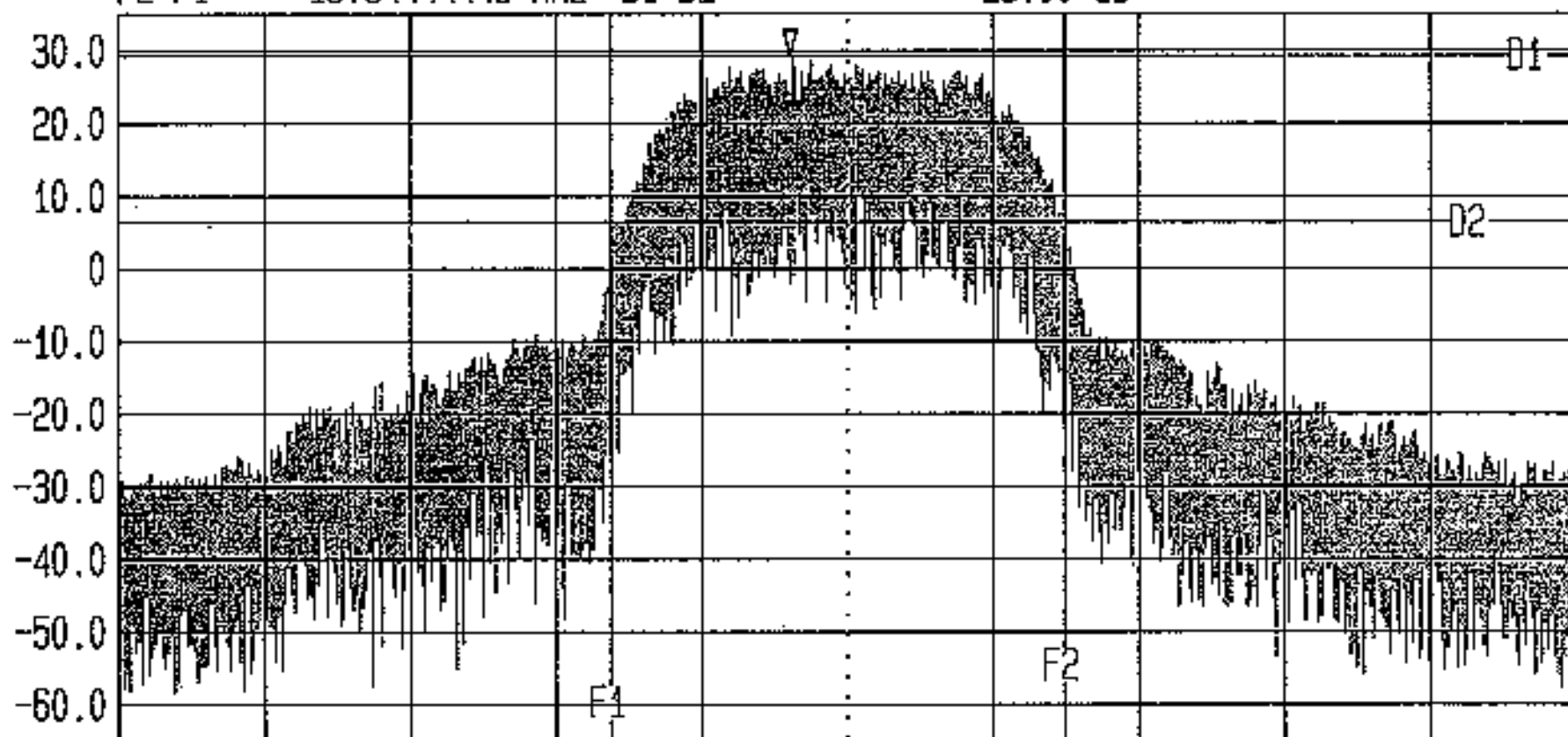
Unit

[dBm]

F1 5.73690000002 GHz D1 29.32 dBm

F2 5.75244444445 GHz D2 6.32 dBm

F2-F1 -15.54444443 MHz D1-D2 -23.00 dB

Start  
5.72 GHzSpan  
50 MHzCenter  
5.745 GHzSweep  
20 msStop  
5.77 GHz

EMISSION BANDWIDTH FCC 15.407

BOTTOM CHANNEL ANTENNA POL HORIZONTAL ANTENNA PORT MEASUREMENT

GPH/42151A/405



LVLOFF

Res.Bw 1.0 MHz [3dB] Vid.Bw 30 kHz

Date 13.Jun.'01 Time 10:25:26

Ref.Lvl 15.00 dBm Marker 8.38 dBm

CF.Stp 2.500 MHz RF.Att 25 dB

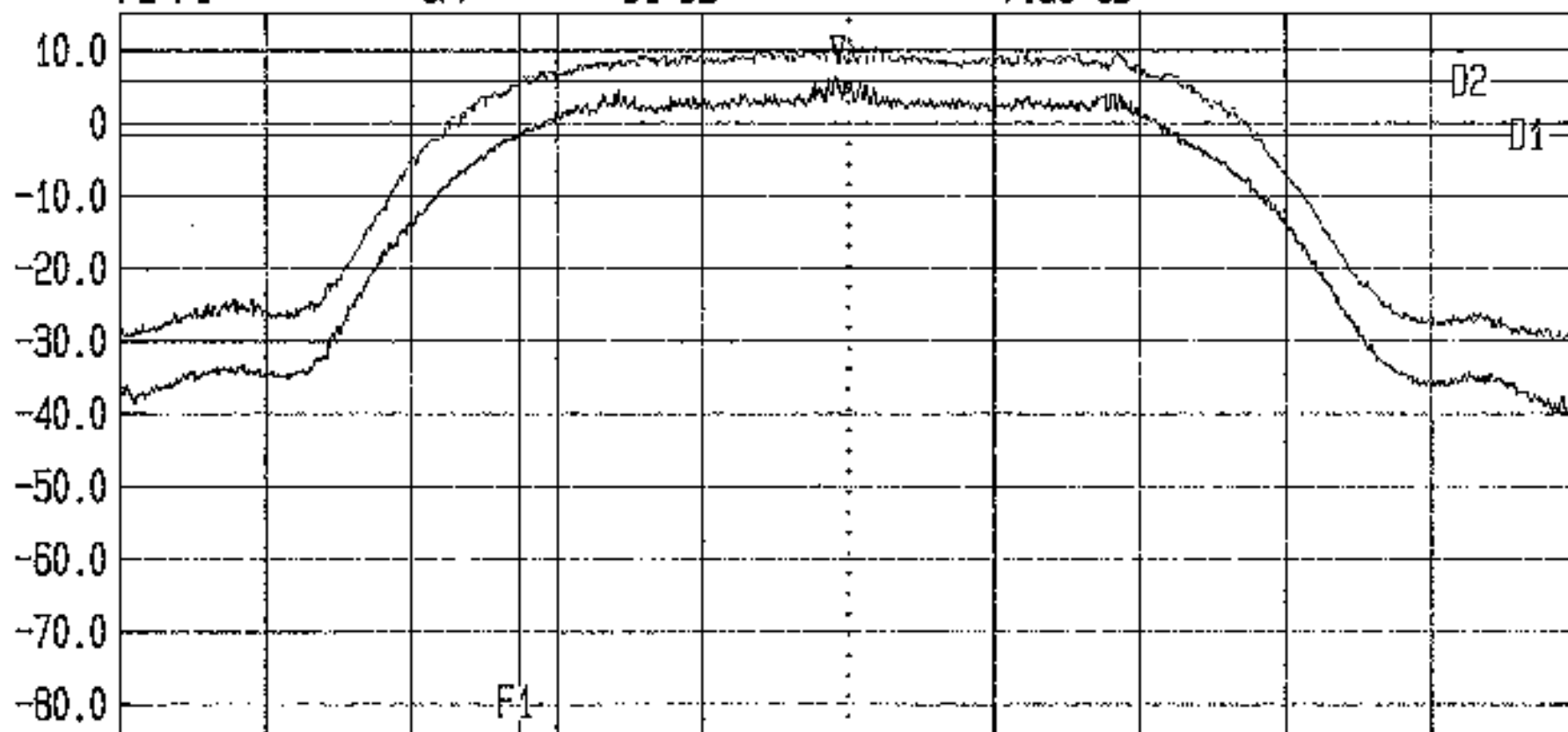
5.74481 GHz

Unit [dBm]

F1 5.73934026511 GHz D1 -1.52 dBm

F2 OFF D2 5.76 dBm

F2-F1 OFF D1-D2 7.28 dB

Start  
5.73247 GHzSpan  
25 MHzCenter  
5.74497 GHzSweep  
20 msStop  
5.75747 GHzPeak Excursion.  
Bottom Channel.Tested By RFI For ABL.  
Antenna Horizontal.

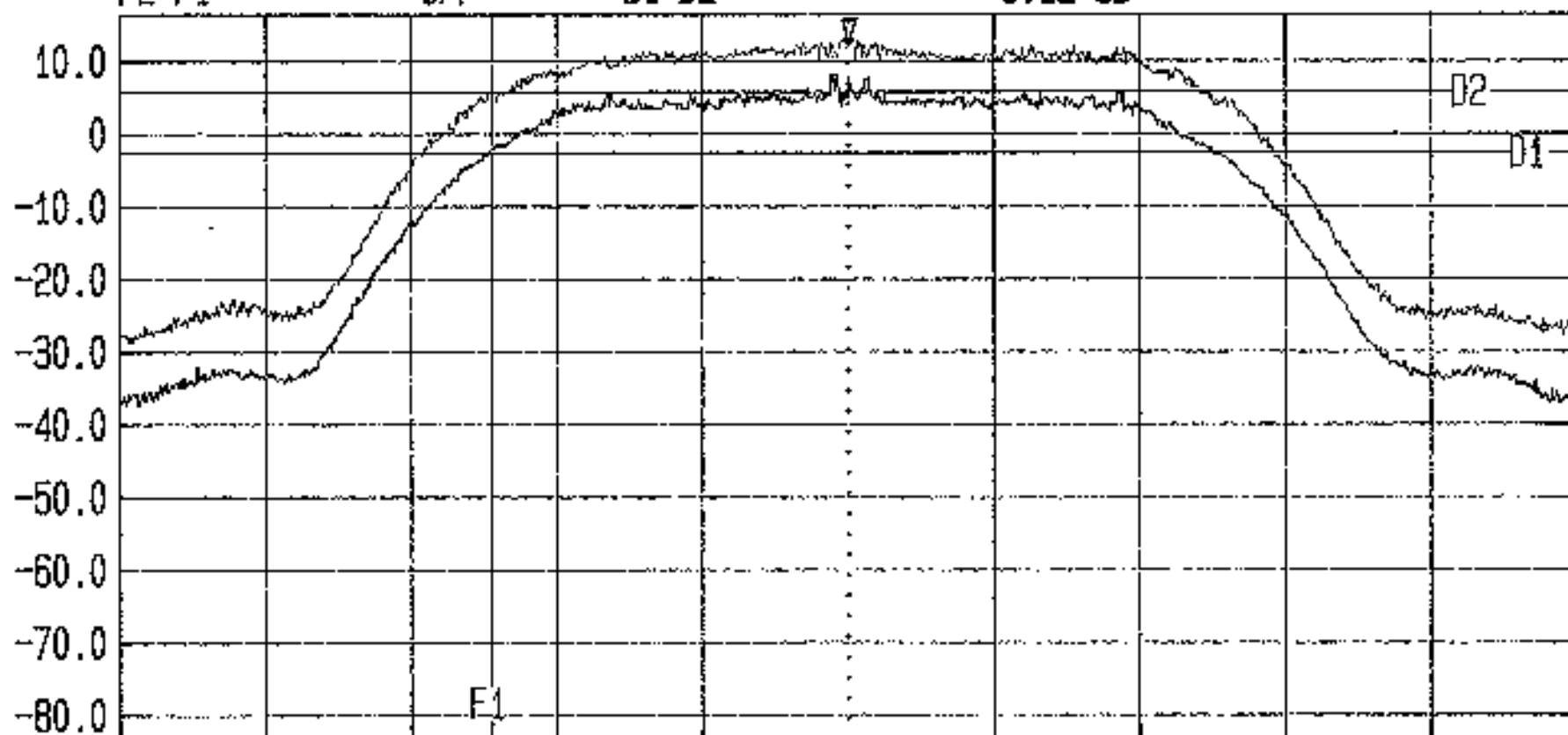
Antenna Port.

FCC Part 15.407  
GPH/42151A/004



LVLOFF  
Date 13.Jun.'01 Time 10:40:14  
Ref.Lvl 12.34 dBm  
16.40 dBm  
F1 5.76883333284 GHz D1  
F2 OFF D2  
F2-F1 OFF D1-D2

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz  
CF.Stp 2.500 MHz RF.Att 25 dB  
Unit [dBm]



Start 5.76244 GHz Span 25 MHz Center 5.77494 GHz Sweep 20 ms Stop 5.78744 GHz

Peak Excursion.  
Middle Channel.

Tested By RFI For ABL.  
Antenna Horizontal.

Antenna Port.

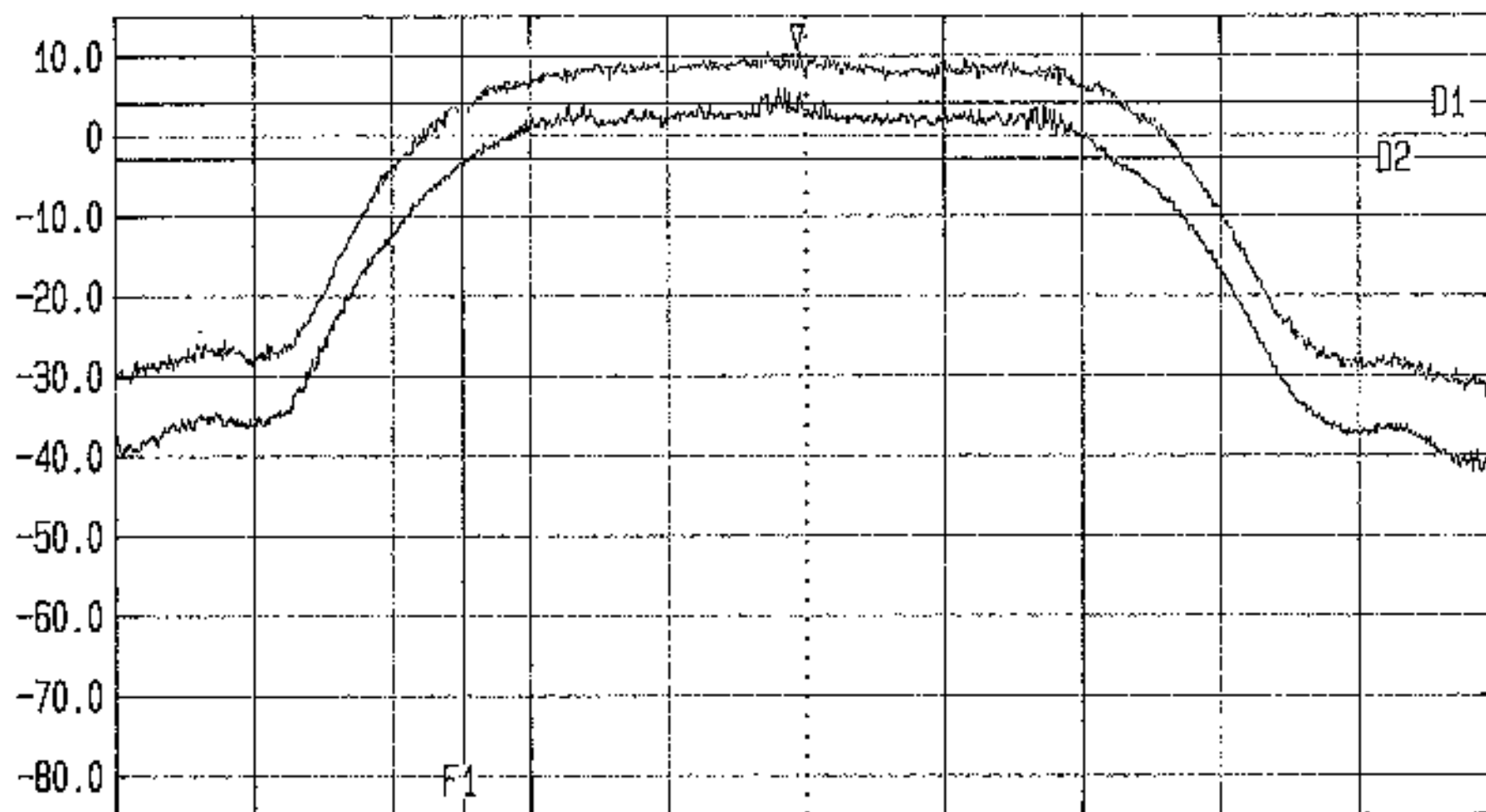
FCC Part 15.407  
GPH/42151A/005





LVLOFF  
Date 13.Jun.'01 Time 14:16:08  
Ref.Lvl 15.00 dBm  
Marker 10.97 dBm  
5.80502 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 30 kHz  
CF.Stp 2.500 MHz RF.Att 25 dB  
Unit [dBm]



Start 5.79266 GHz Span 25 MHz Center 5.80516 GHz Sweep 20 ms Stop 5.81766 GHz

Peak Excursion.  
Top Channel.

Tested By RFI For ABL.  
Antenna Horizontal.

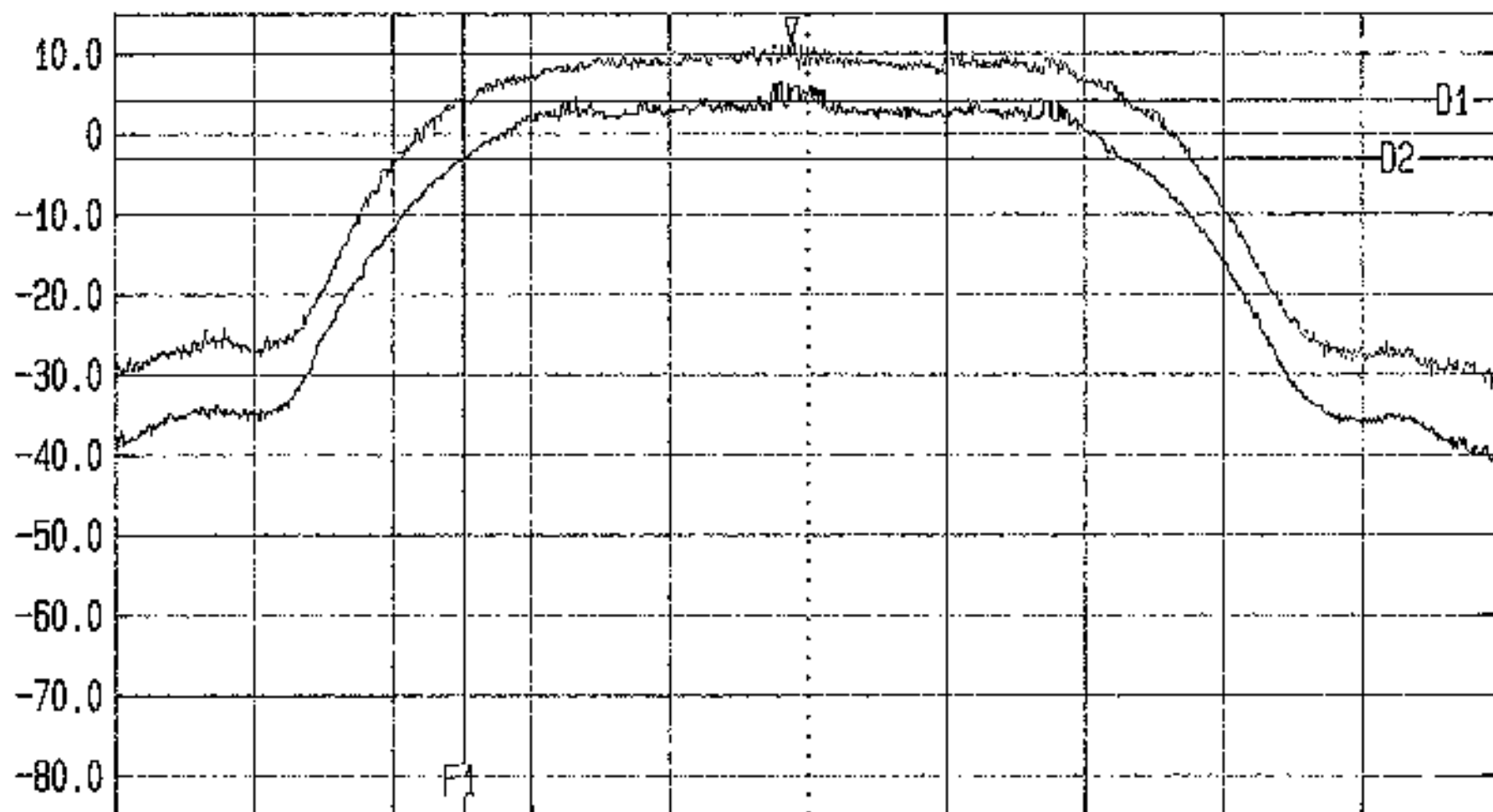
Antenna Port.

FCC Part 15.407  
GPH/42151A/012



LVLOFF  
Date 13.Jun.'01 Time 14:24:17  
Ref.Lvl 15.00 dBm  
Marker 11.63 dBm  
5.80488 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz  
CF.Stp 2.500 MHz RF.Att 25 dB  
Unit [dBm]



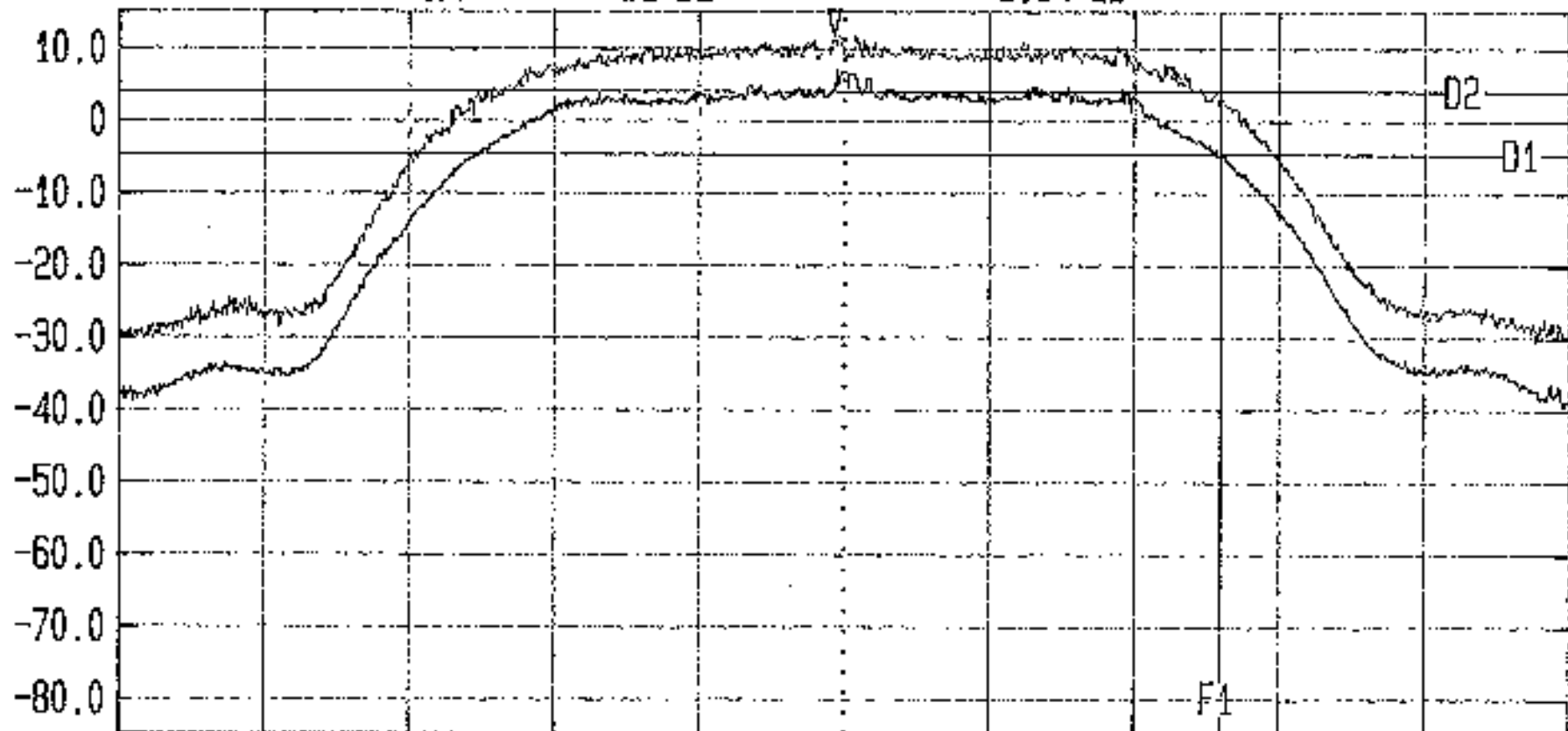
Start 5.79266 GHz Span 25 MHz Center 5.80516 GHz Sweep 20 ms Stop 5.81766 GHz  
Peak Excursion. Tested By RFI For ABL. FCC Part 15.407  
Top Channel. Antenna Horizontal. Antenna Port. GPH/42151A/013  
Vertical.



LVLOFF  
Date 13.Jun.'01 Time 15:57:16  
Ref.Lvl 15.00 dBm Marker 11.86 dBm  
5.77477 GHz  
F1 5.78143888644 GHz D1  
F2 OFF D2  
F2-F1 OFF D1-D2

Res.Bw 1.0 MHz [3dB] Vid.Bw 30 kHz  
CF.Stp 2.500 MHz RF.Att 25 dB  
Unit [dBm]

-4.45 dBm  
4.19 dBm  
8.64 dB



Start  
5.76244 GHz

Span  
25 MHz

Center  
5.77494 GHz

Sweep  
20 ms

Stop  
5.78744 GHz

Peak Excursion.  
Middle Channel.

Tested By RFI For ABL.  
Antenna Vertical.

Antenna Port.

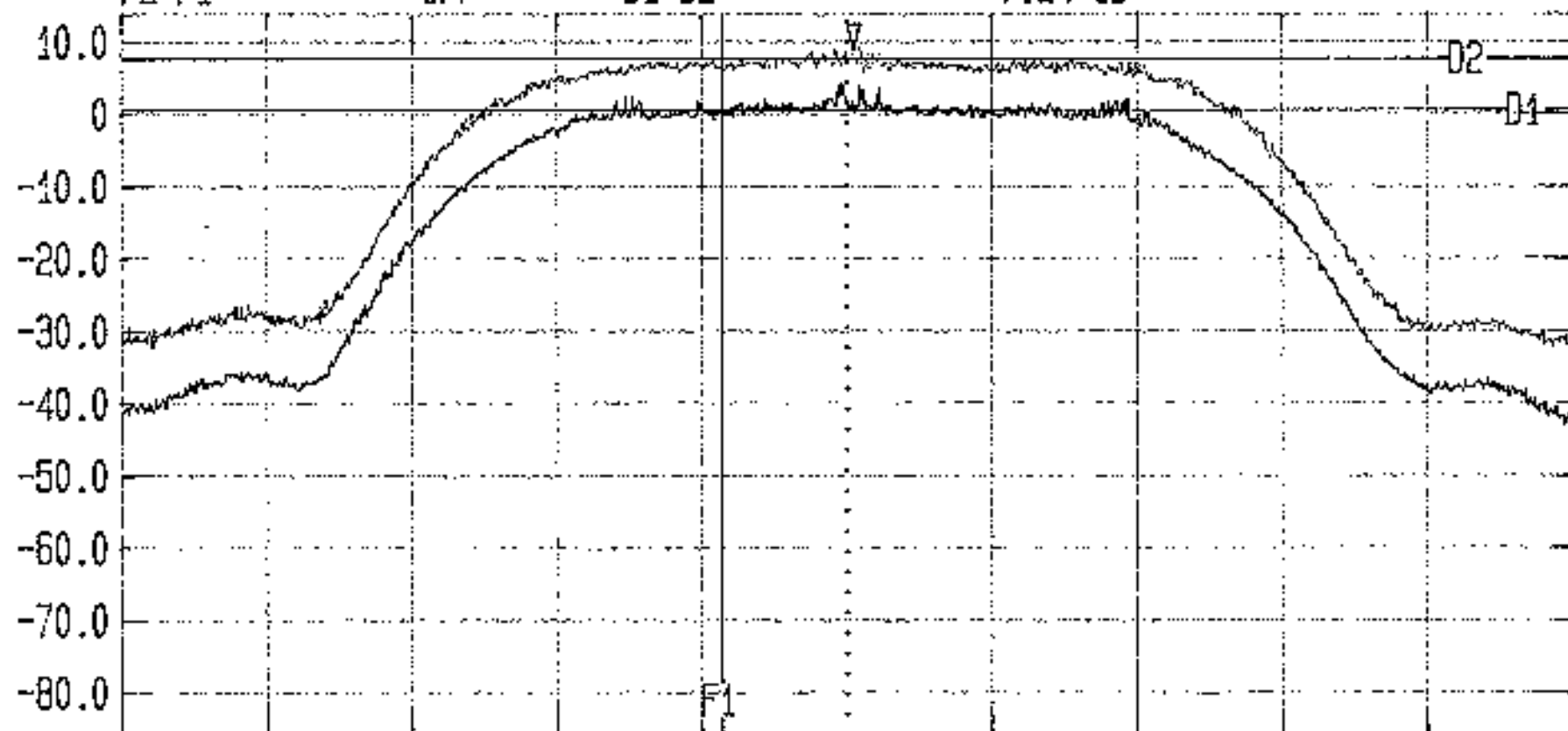
FCC Part 15.407  
GPH/42151A/020



Date 16.Jun.'01 Time 09:22:48  
Ref.Lvl 13.60 dBm  
Marker 8.96 dBm  
5.74489 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz  
CF.Stp 2.500 MHz RF.Att 25 dB  
Unit [dBm]

F1 5.74264444051 GHz D1 0.41 dBm  
F2 OFF D2 7.65 dBm  
F2-F1 OFF D1-D2 7.24 dB



Start  
5.73228 GHz

Span  
25 MHz

Center  
5.74478 GHz

Sweep  
20 ms

Stop  
5.75728 GHz

Peak Excursion.  
Bottom Channel.

Tested By RFI For ABL.  
Antenna Vertical.

Antenna Port

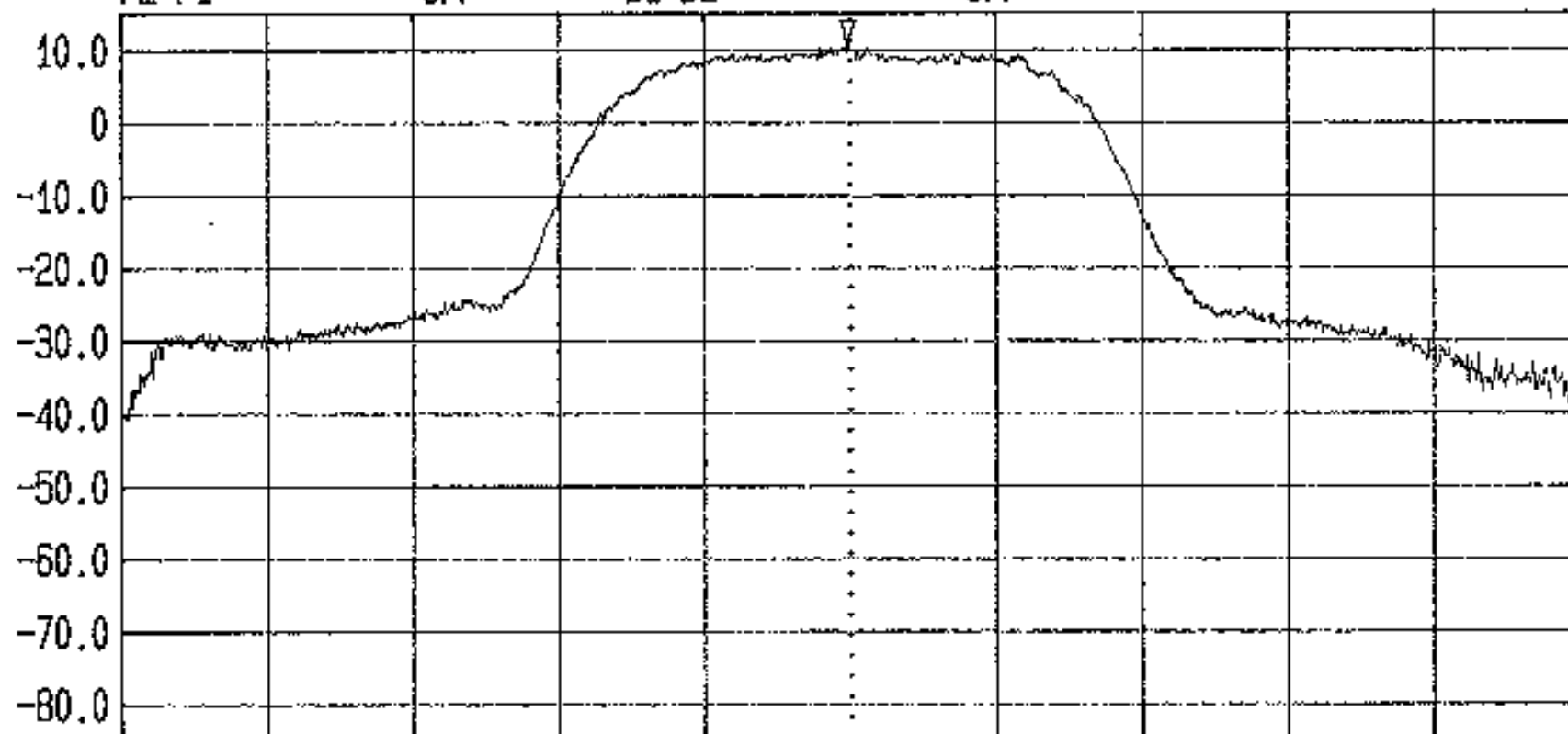
FCC Part 15.407  
GPH/42151A/024



LYLOFF  
Date 13.Jun.'01 Time 09:53:48  
Ref.Lvl 15.00 dBm  
Marker 10.76 dBm  
5.74493 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 3 MHz  
CF.Stp 4.000 MHz RF.Att 30 dB  
Unit [dBm]

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



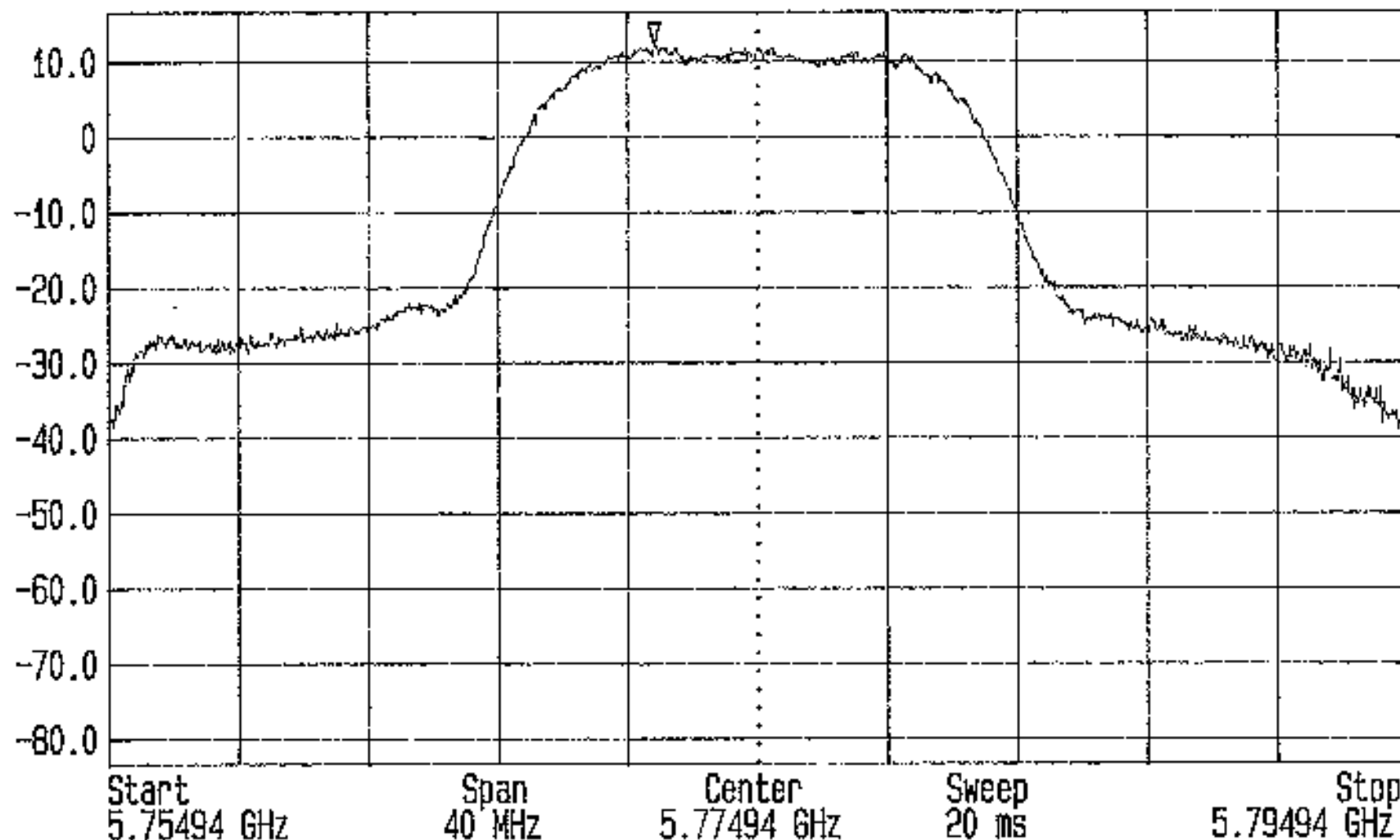
Start 5.72497 GHz Span 40 MHz Center 5.74497 GHz Sweep 20 ms Stop 5.76497 GHz

PPSD. Tested By RFI For ABL. Corr Factor: 11.9dB. FCC Part 15.407(a)  
Bottom Channel. Antenna Horizontal. Antenna Port. GPH/42151A/003



LVLOFF  
Date 13.Jun.'01 Time 10:46:17  
Ref.Lvl 16.40 dBm  
Marker 12.14 dBm  
5.77174 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 3 MHz  
CF.Stp 4.000 MHz RF.Att 30 dB  
Unit [dBm]



PPSD.  
Middle Channel.

Tested By RFI For ABL.  
Antenna Horizontal.

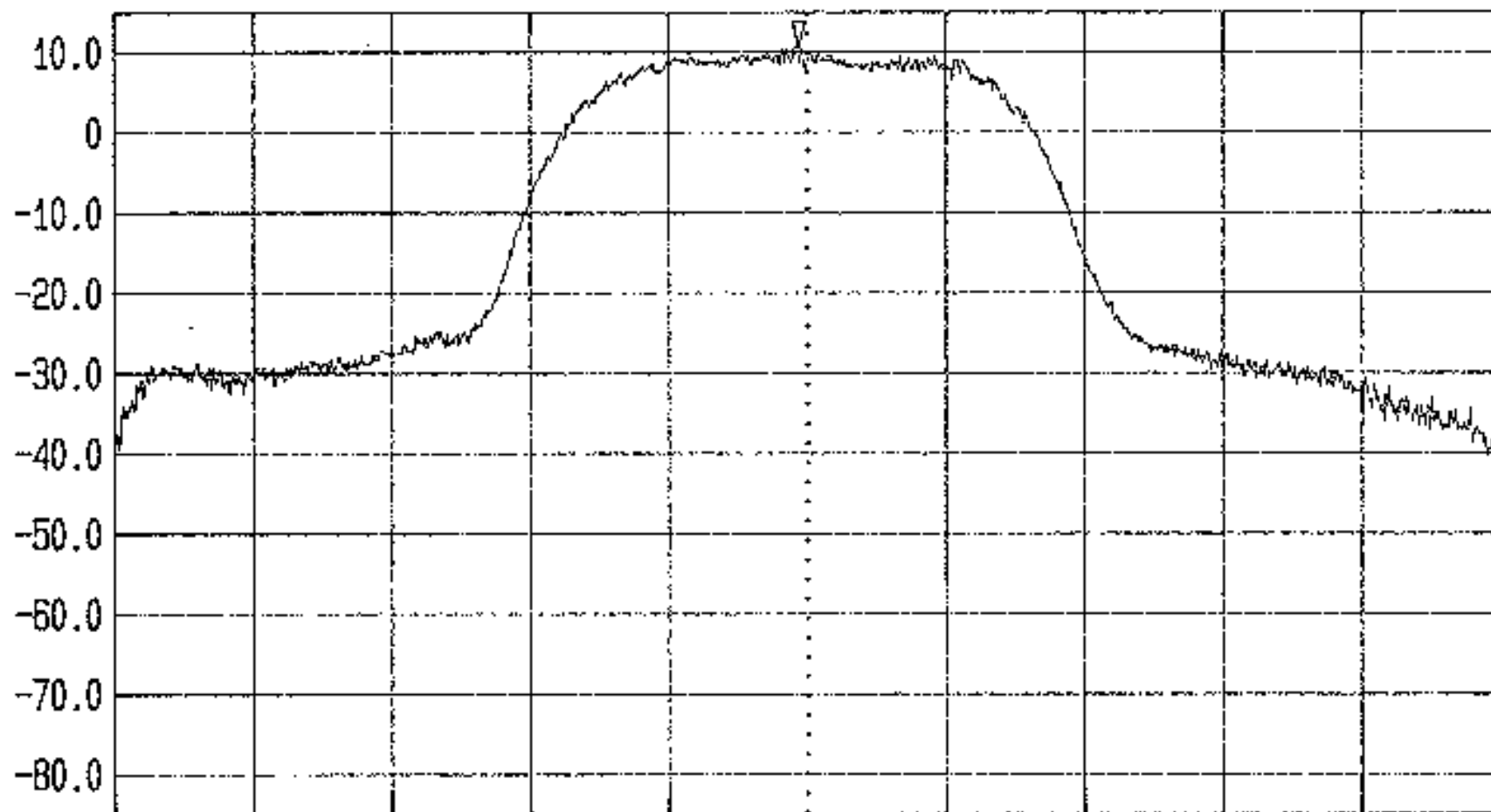
Antenna Port.

FCC Part 15.407  
GPH/42151A/006



LVLOFF  
Date 13.Jun.'01 Time 14:06:23  
Ref.Lvl 15.00 dBm  
Marker 10.92 dBm  
5.80494 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 3 MHz  
CF.Stp 4.000 MHz RF.Att 30 dB  
Unit [dBm]

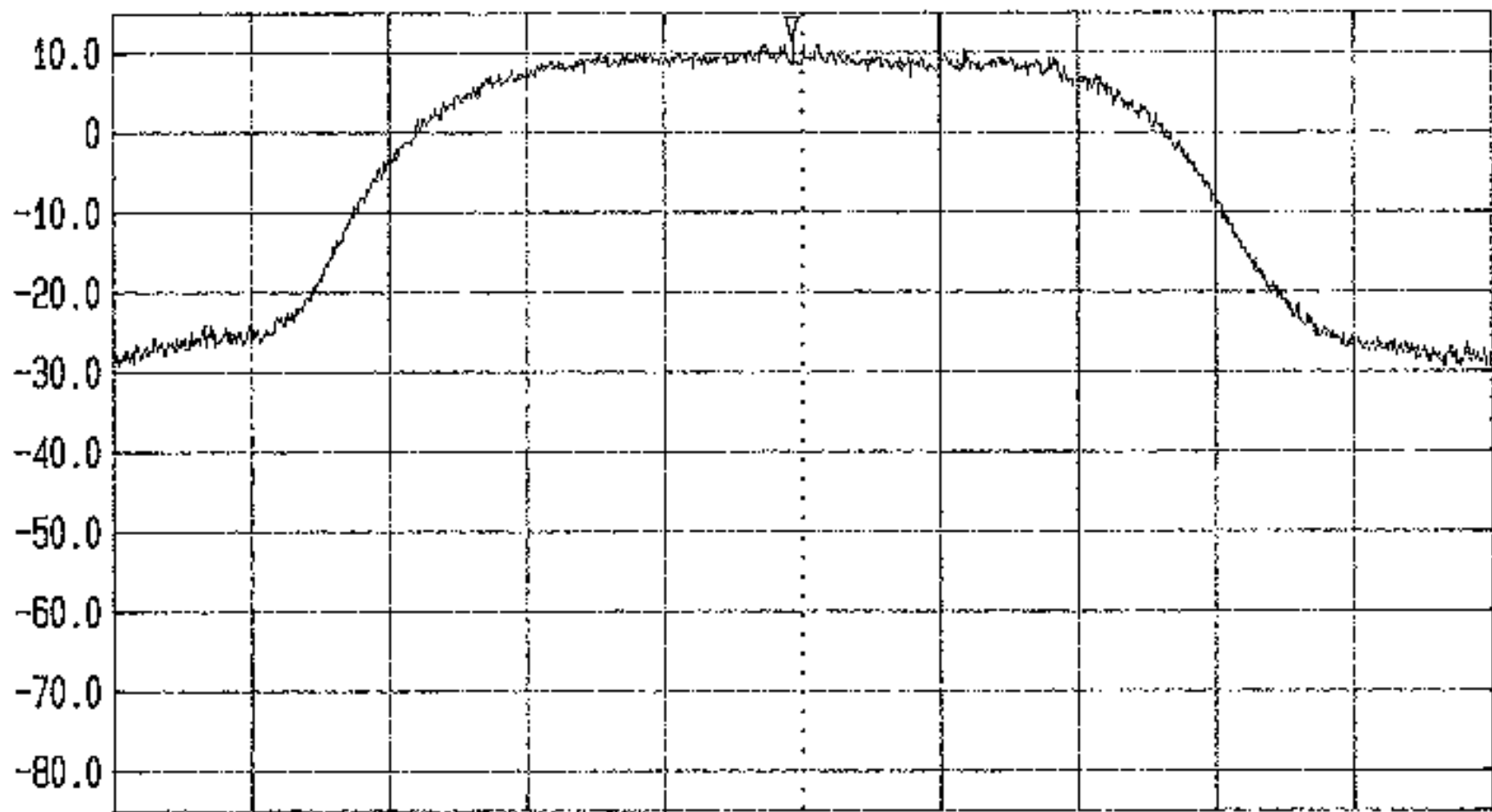


Start 5.78516 GHz Span 40 MHz Center 5.80516 GHz Sweep 20 ms Stop 5.82516 GHz  
PPSD. Tested By RFI For ABL. FCC Part 15.407  
Top Channel. Antenna Horizontal. Antenna Port. GPH/42151A/011



LVLOFF  
Date 13.Jun.'01 Time 14:33:06  
Ref.Lvl 15.00 dBm  
Marker 11.40 dBm  
5.80499 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 3 MHz  
CF.Stp 2.500 MHz RF.Att 25 dB  
Unit [dBm]



Start 5.79266 GHz Span 25 MHz Center 5.80516 GHz Sweep 20 ms Stop 5.81766 GHz

PPSD. Tested By RFI For ABL. FCC Part 15.407  
Top Channel. Antenna Vertical. Antenna Port. GPH/42151A/014

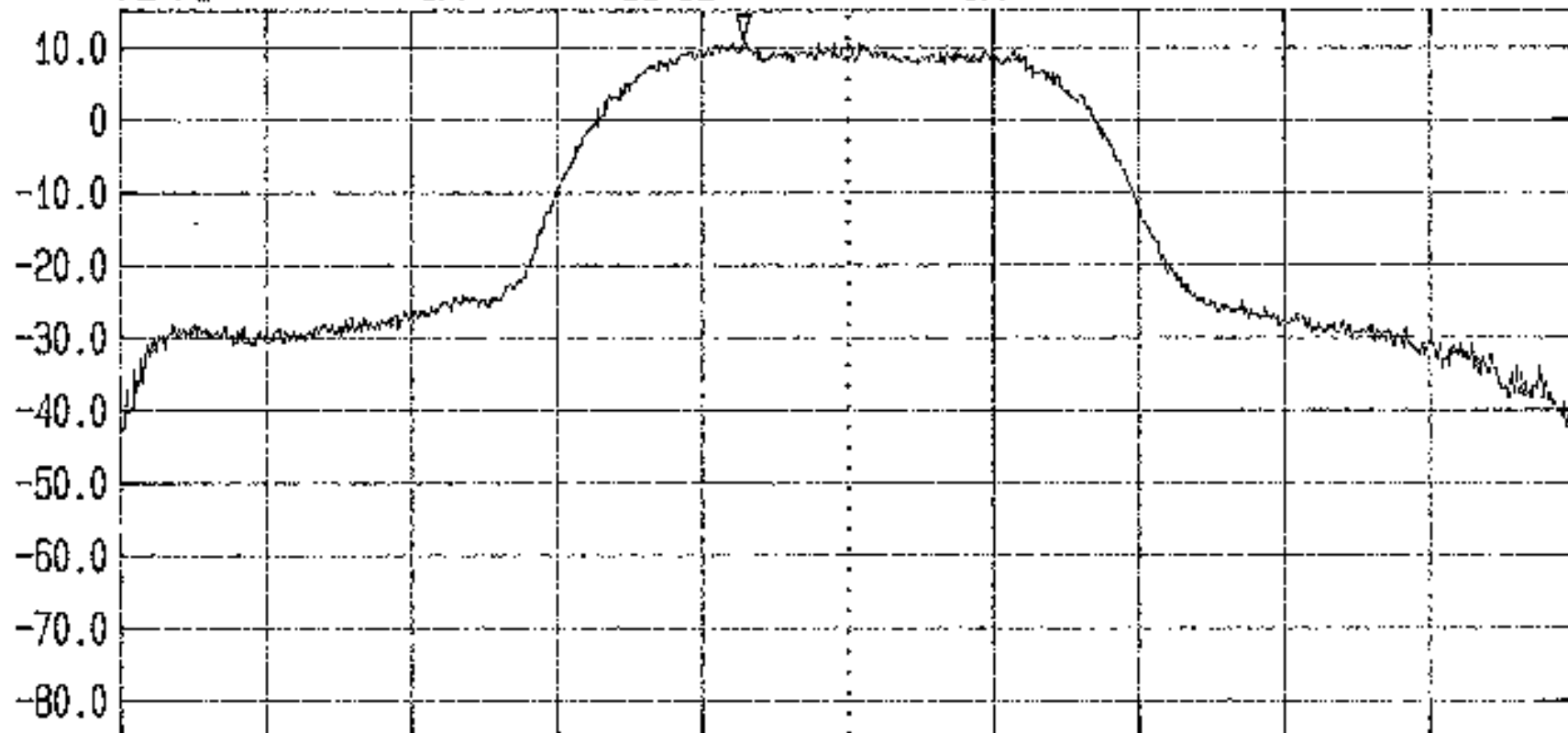




LVLOFF  
Date 13 Jun. '01 Time 15:46:10  
Ref.Lvl 15.00 dBm  
Marker 10.82 dBm  
5.77209 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 3 MHz  
CF.Stp 4.000 MHz RF.Att 25 dB  
Unit [dBm]

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

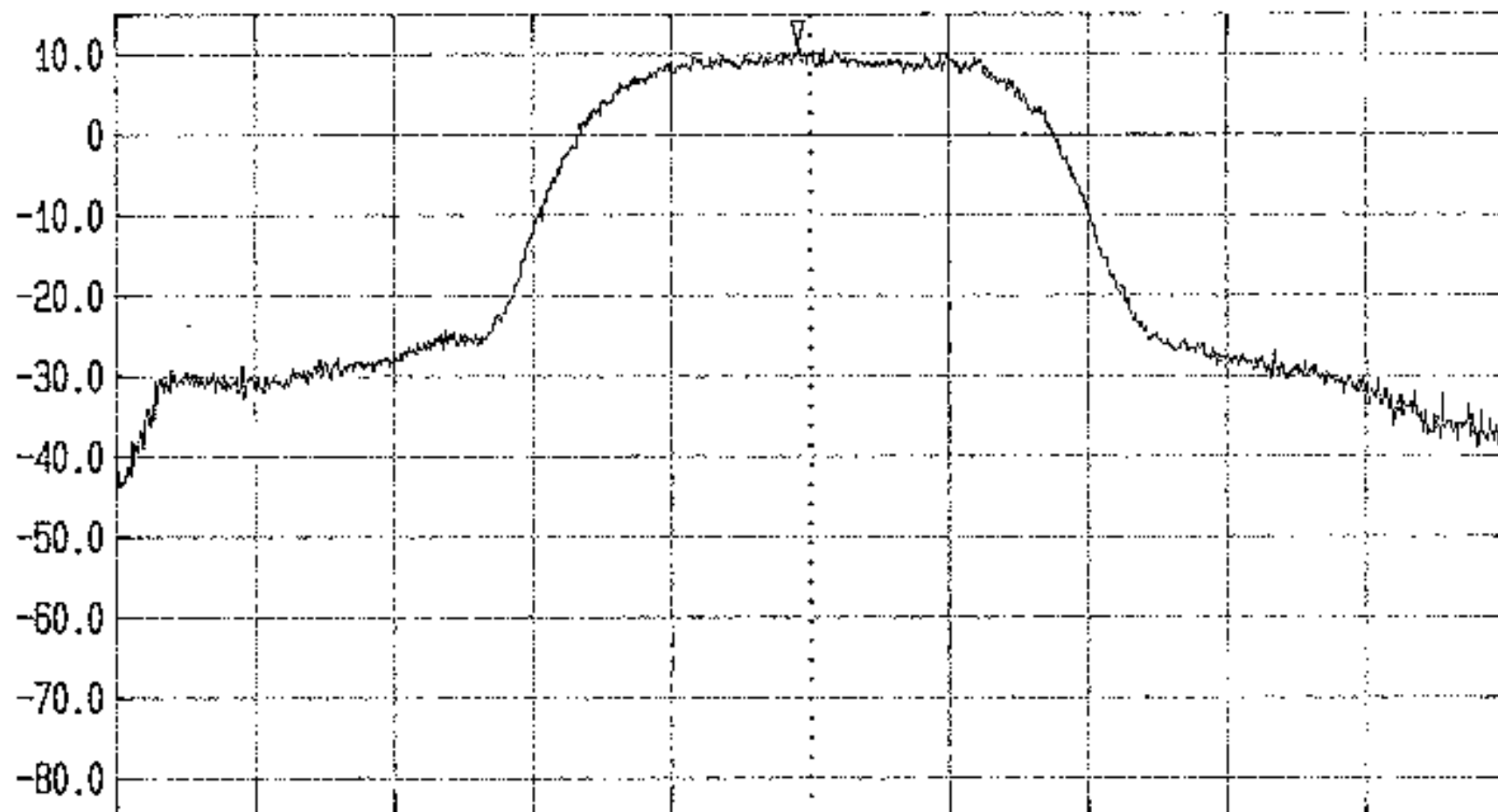


Start 5.75494 GHz Span 40 MHz Center 5.77494 GHz Sweep 20 ms Stop 5.79494 GHz  
PPSD. Tested By RFI For ABL. FCC Part 15.407  
Middle Channel. Antenna Vertical. Antenna Port. GPH/42151A/019



LVLOFF  
Date 16.Jun.'01 Time 09:18:10  
Ref.Lvl 15.00 dBm  
Marker 11.22 dBm  
5.74443 GHz

Res.Bw 1.0 MHz [3dB] Vid.Bw 3 MHz  
CF.Stp 5.745 GHz RF.Att 25 dB  
Unit [dBm]



Start 5.72478 GHz Span 40 MHz Center 5.74478 GHz Sweep 20 ms Stop 5.76478 GHz  
PPSD Power. Tested By RFI For ABL. FCC Part 15.407  
Bottom Channel. Antenna Vertical. Antenna Port GPH/42151A/023