EXHIBIT H

Paragraph 2.983(e)

Test Data and Measurement Procedures

EXHIBIT H

Paragraph 2.985(a)

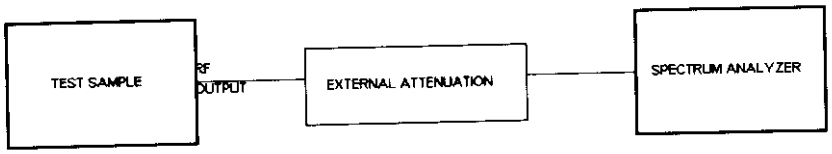
Power Output

POWER OUTPUT (Para. 2.985(a)

Measurement Procedure:

The RF output of the test sample was connected through external attenuators to a spectrum analyzer with a 3MHz resolution bandwidth. The power output was measured for the unmodulated carrier at the low, middle and high frequencies of the operational band with the EUT powered by a full strength battery.

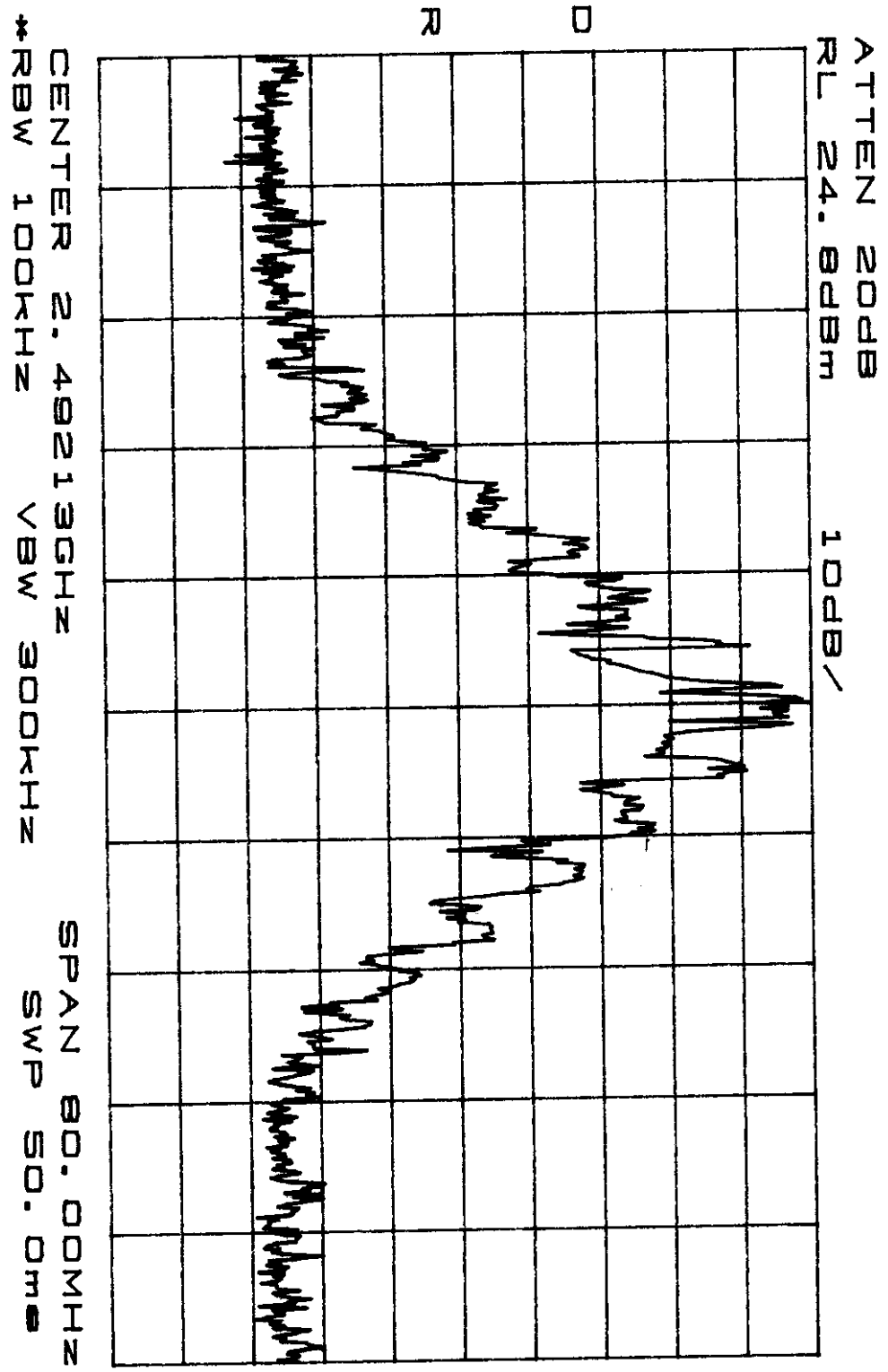
GENERAL TEST SETUP



RETLIF TESTING LABORATORIES

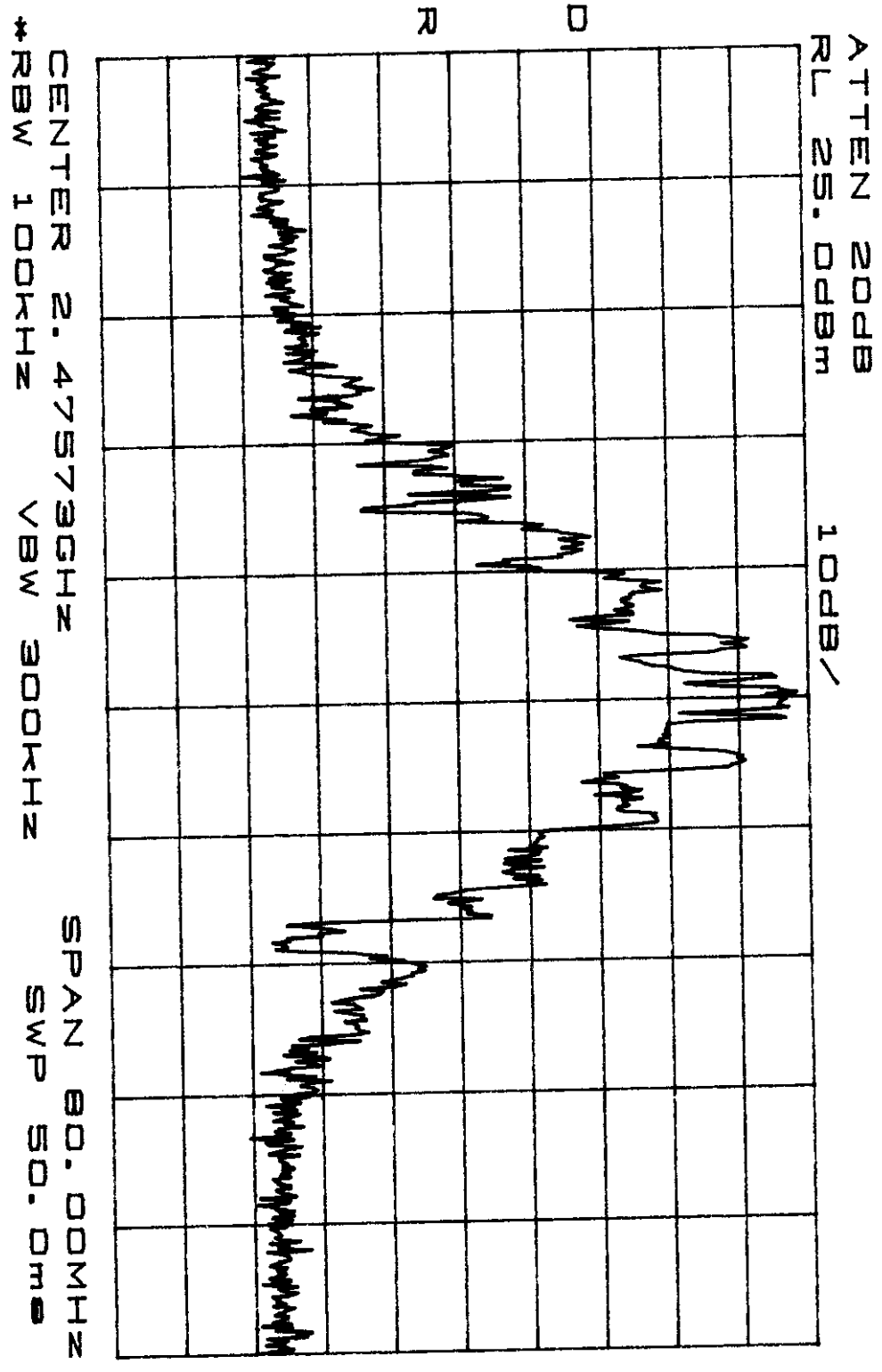
Test Method	Occupied Bandwidth / RF Power Out		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.989(i), 90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

Sheet 1 of 3



RETLIF TESTING LABORATORIES

Test Method	Occupied Bandwidth / RF Power Out		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.989(i), 90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



RETLIF TESTING LABORATORIES

Test Method	Occupied Bandwidth / RF Power Out		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.989(i), 90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		

Sheet 3 of 3

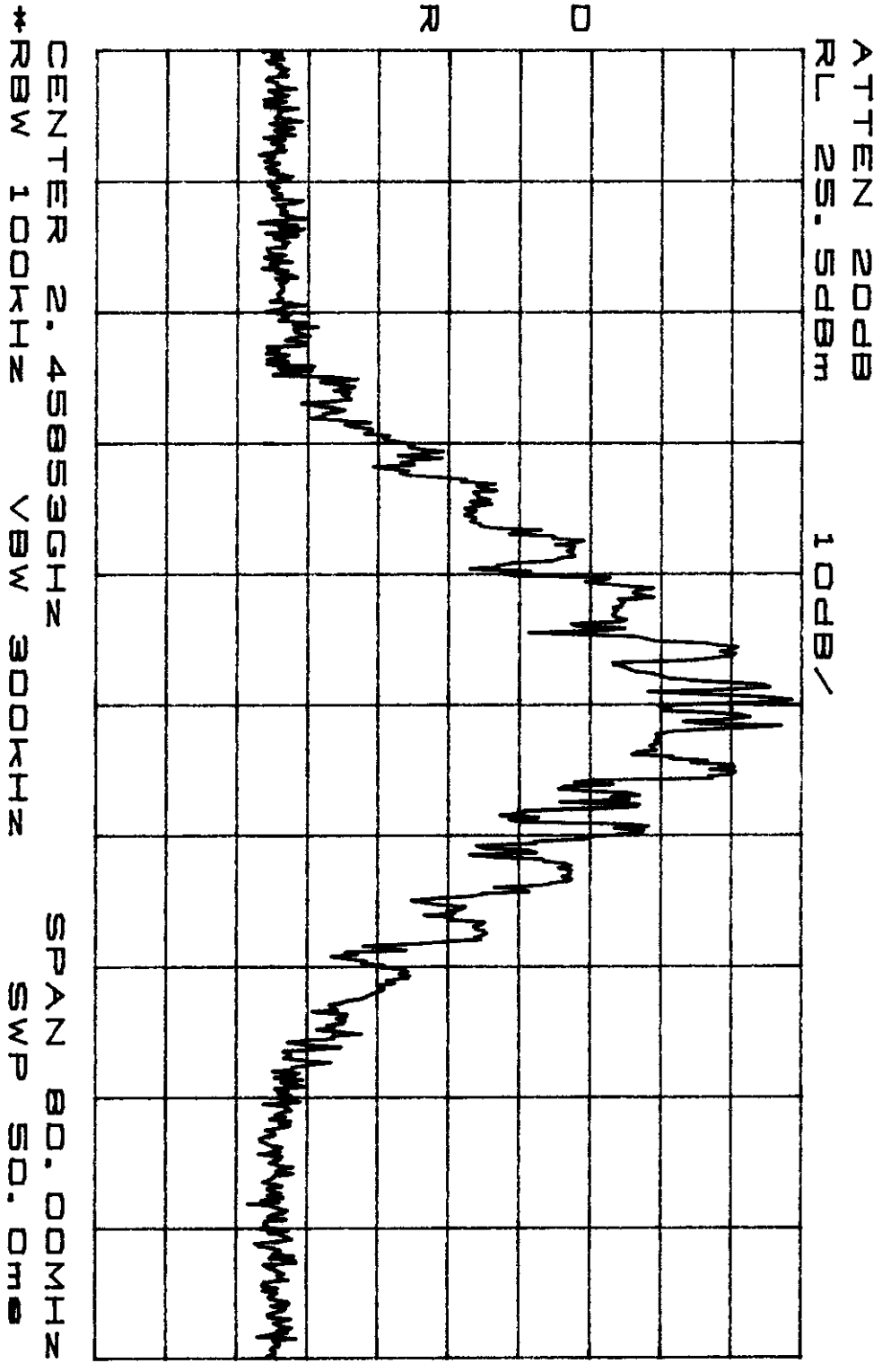


EXHIBIT H

Paragraph 2.987

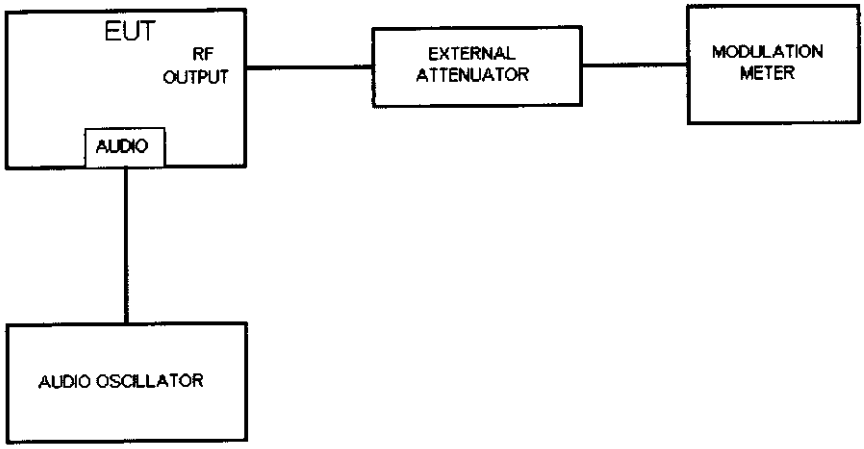
Modulation Characteristics

MODULATION CHARACTERISTICS (2.987)

Measurement Procedure:

An Audio Oscillator was coupled to the Audio Input of the transmitter under test. The RF Output at the antenna terminals was loosely coupled to a modulation meter as shown below. The Audio Input level was adjusted from -60dBm to +10dBm at each frequency listed herein. At each test frequency and level, the FM modulation was recorded.

GENERAL TEST SETUP



VTX-250 Audio Modulation Frequency Response

(Including Low Pass Filter Response)

EXHIBIT H

Paragraph 2.989

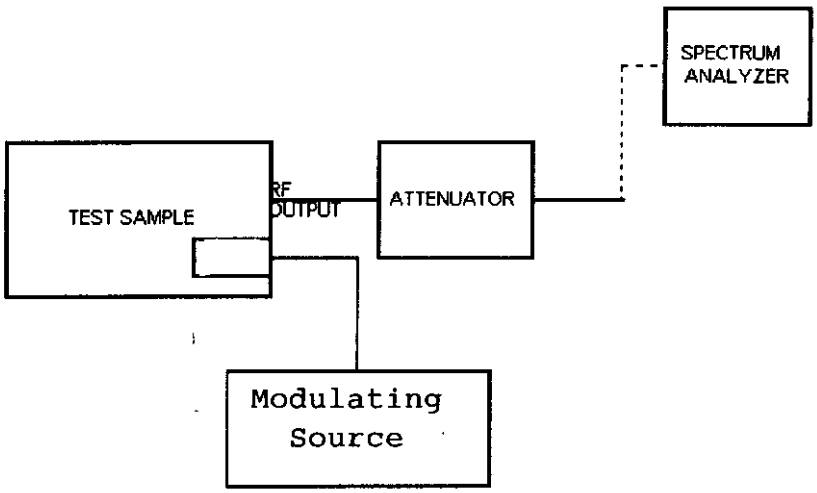
Occupied Bandwidth

OCCUPIED BANDWIDTH (PARA.2.989)

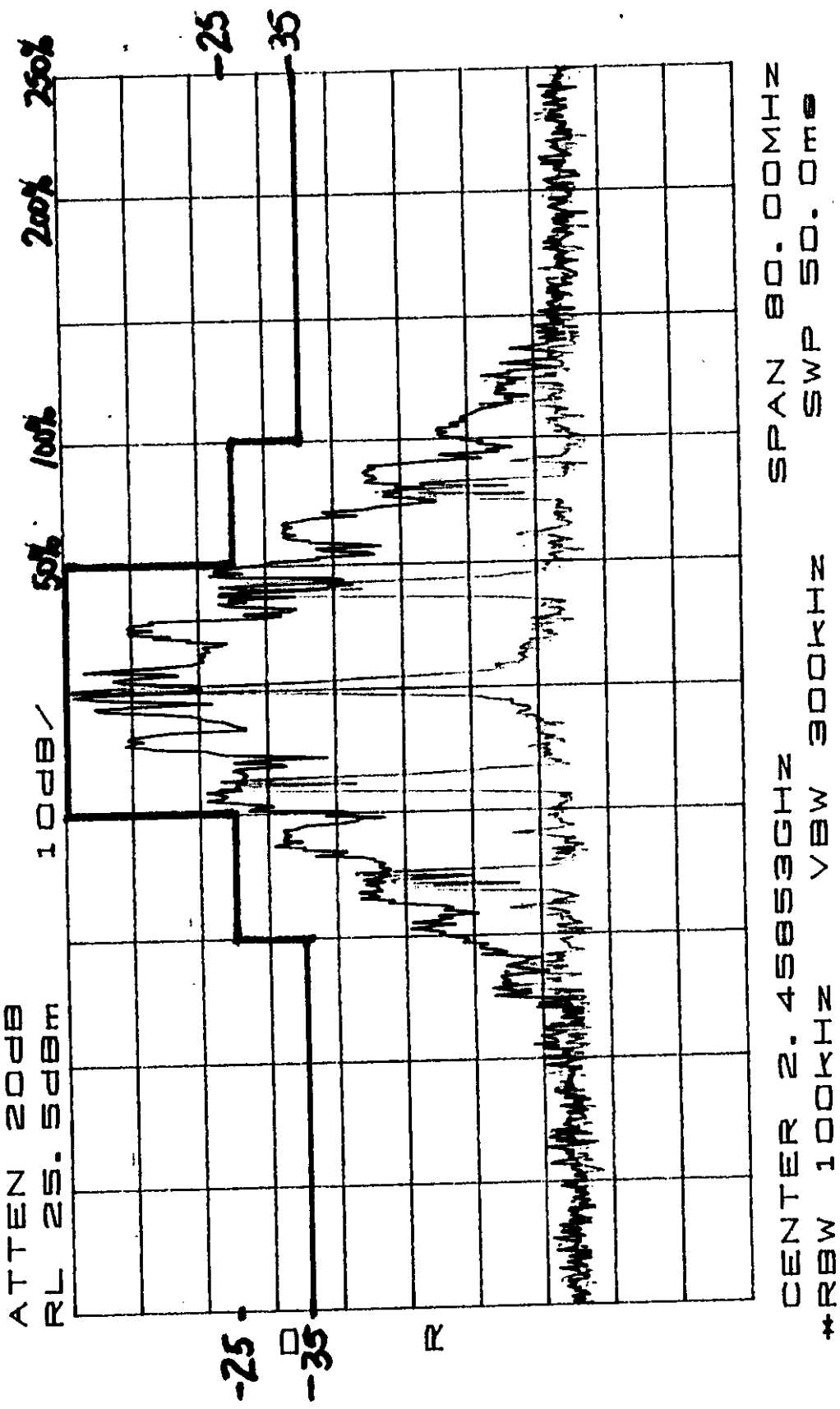
Measurement Procedure:

Simulated normal modulation for the EUT of 75% color bars (video) and 1000Hz, 1vp-p (audio) were applied to the input connectors of the EUT which was operating with a new full strength battery. With the EUT operating at maximum output the occupied bandwidth was observed at the low, middle and high end of the operational band using a spectrum analyzer connected to the EUT RF output.

GENERAL TEST SETUP



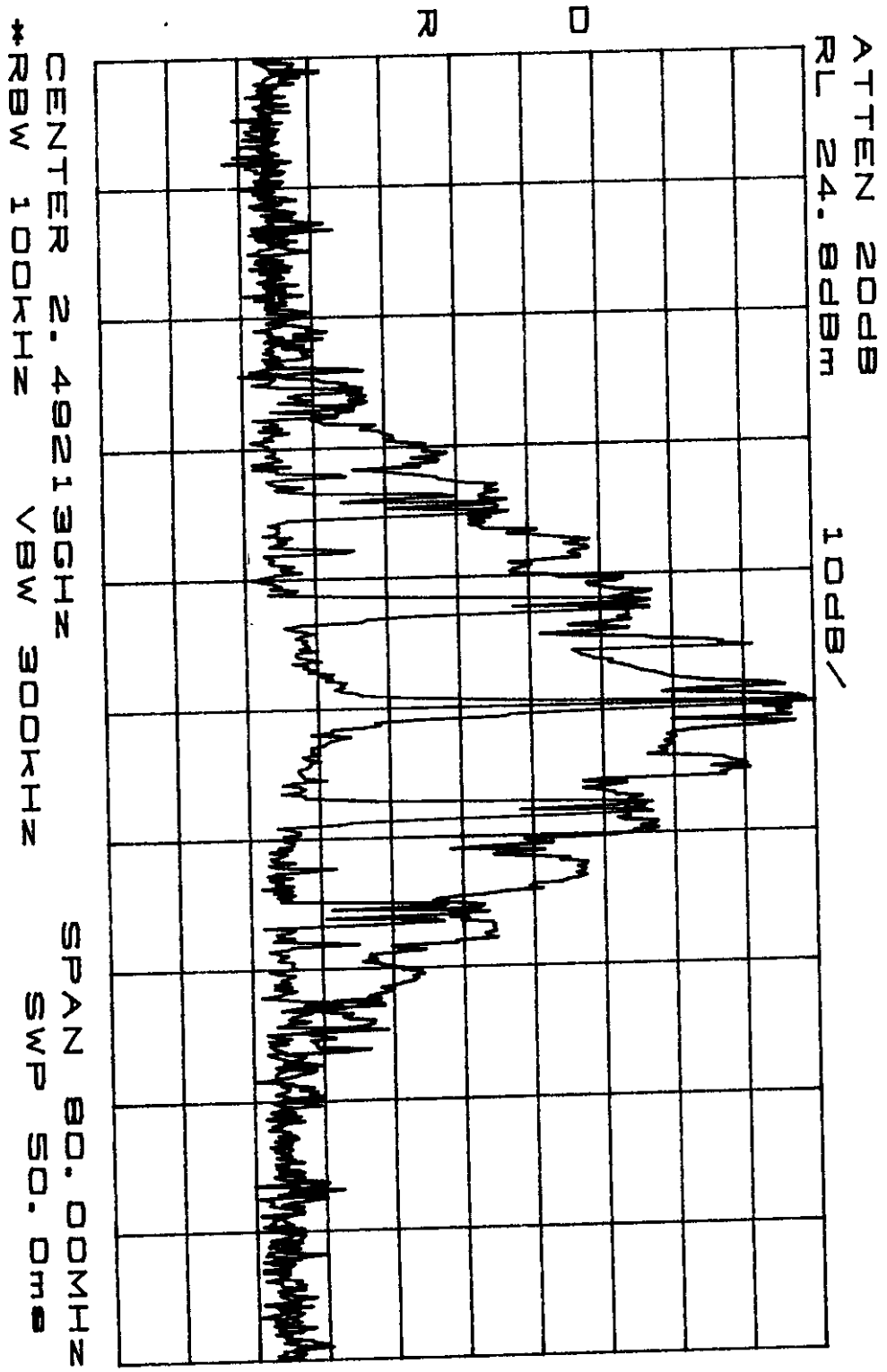
PART 90.210 D) EMISSION MASK D



RETLIF TESTING LABORATORIES

Test Method	Occupied Bandwidth		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.989(i), 90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

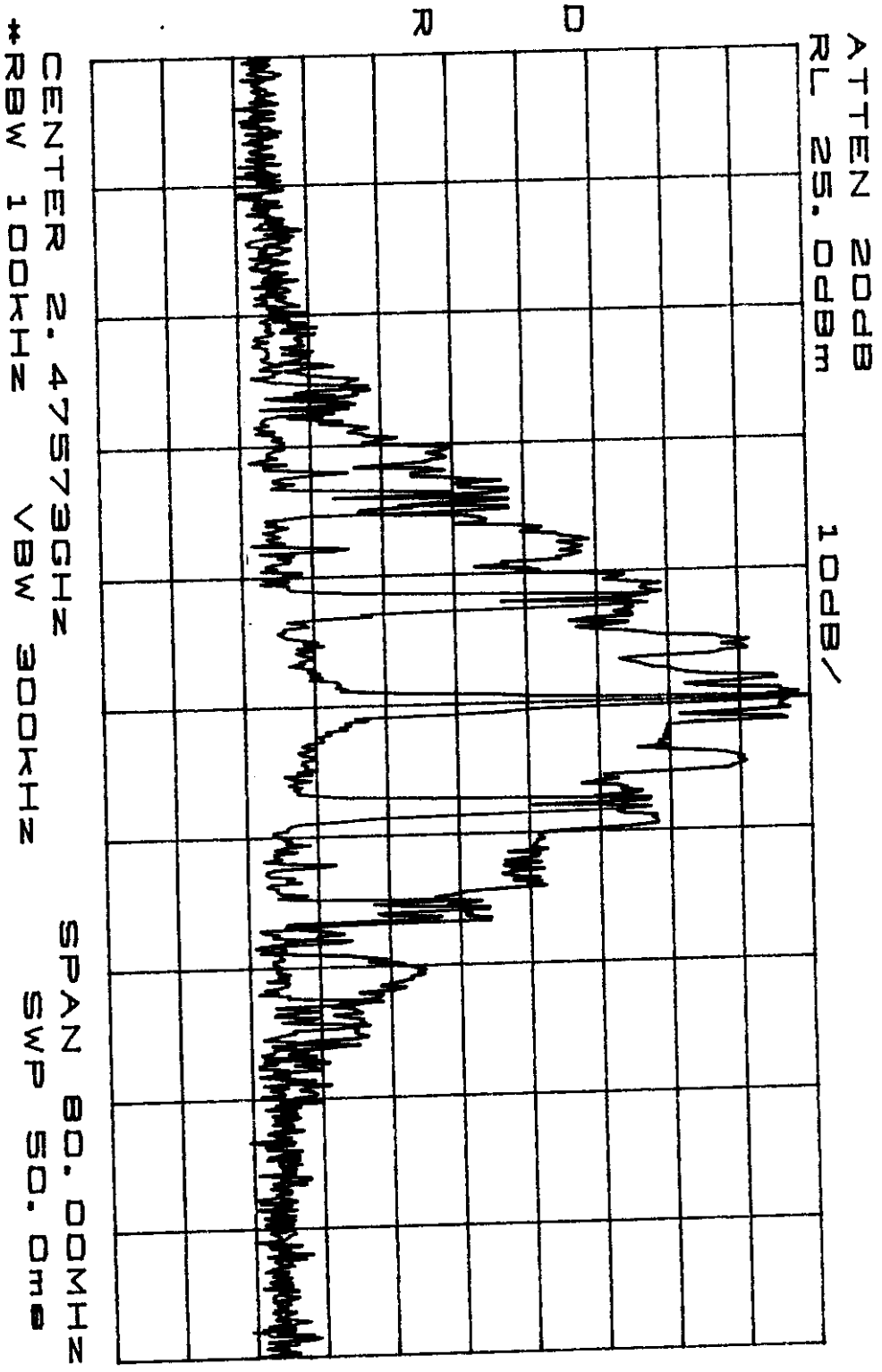
Sheet 1 of 3



RETLIF TESTING LABORATORIES

Test Method	Occupied Bandwidth		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.989(i), 90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		

Sheet 2 of 3



RETLIF TESTING LABORATORIES

Test Method	Occupied Bandwidth		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.989(i), 90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		

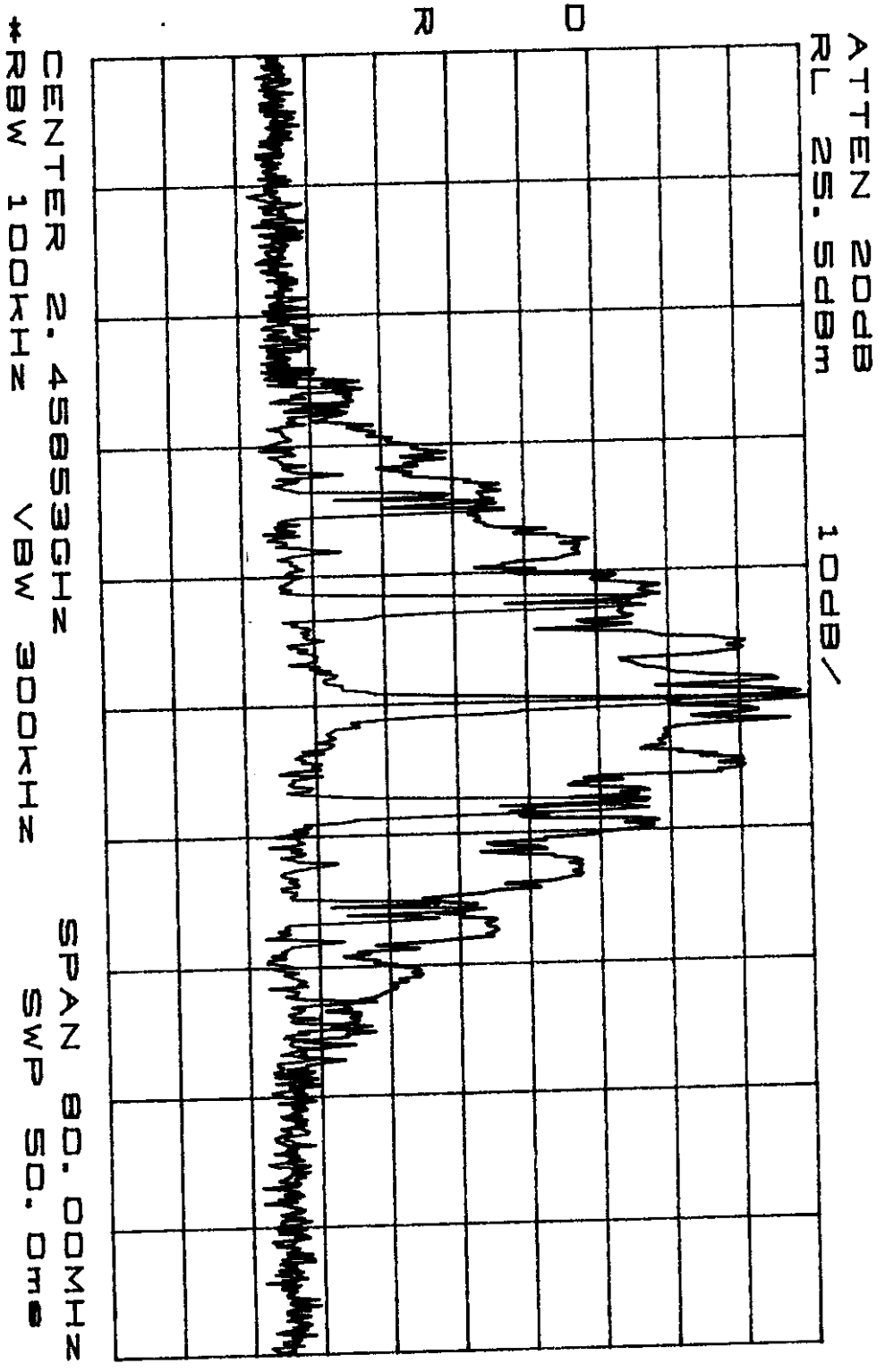


EXHIBIT H

Paragraph 2.991

Antenna Conducted Emissions

ANTENNA CONDUCTED EMISSIONS (PARA.2.991)

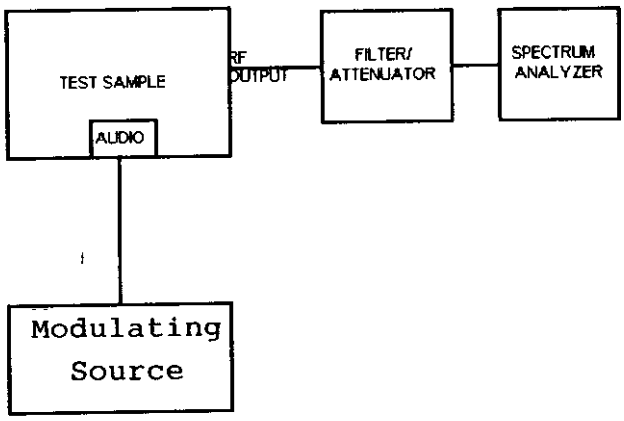
Measurement Procedure:

With the Eut operating with a fully charged battery and modulation as listed the RF output was coupled to a spectrum analyzer. The frequency range of 30MHz to 25GHz was scanned. The limits for the spurious emissions were based on the requirements of Para. 90.210 and the formula:

$$\text{Limit} = \text{Level of Fundamental} - (43 + 10 \log P_T)$$

The above was performed with the Eut operating at low, mid and high frequencies within the operational band.

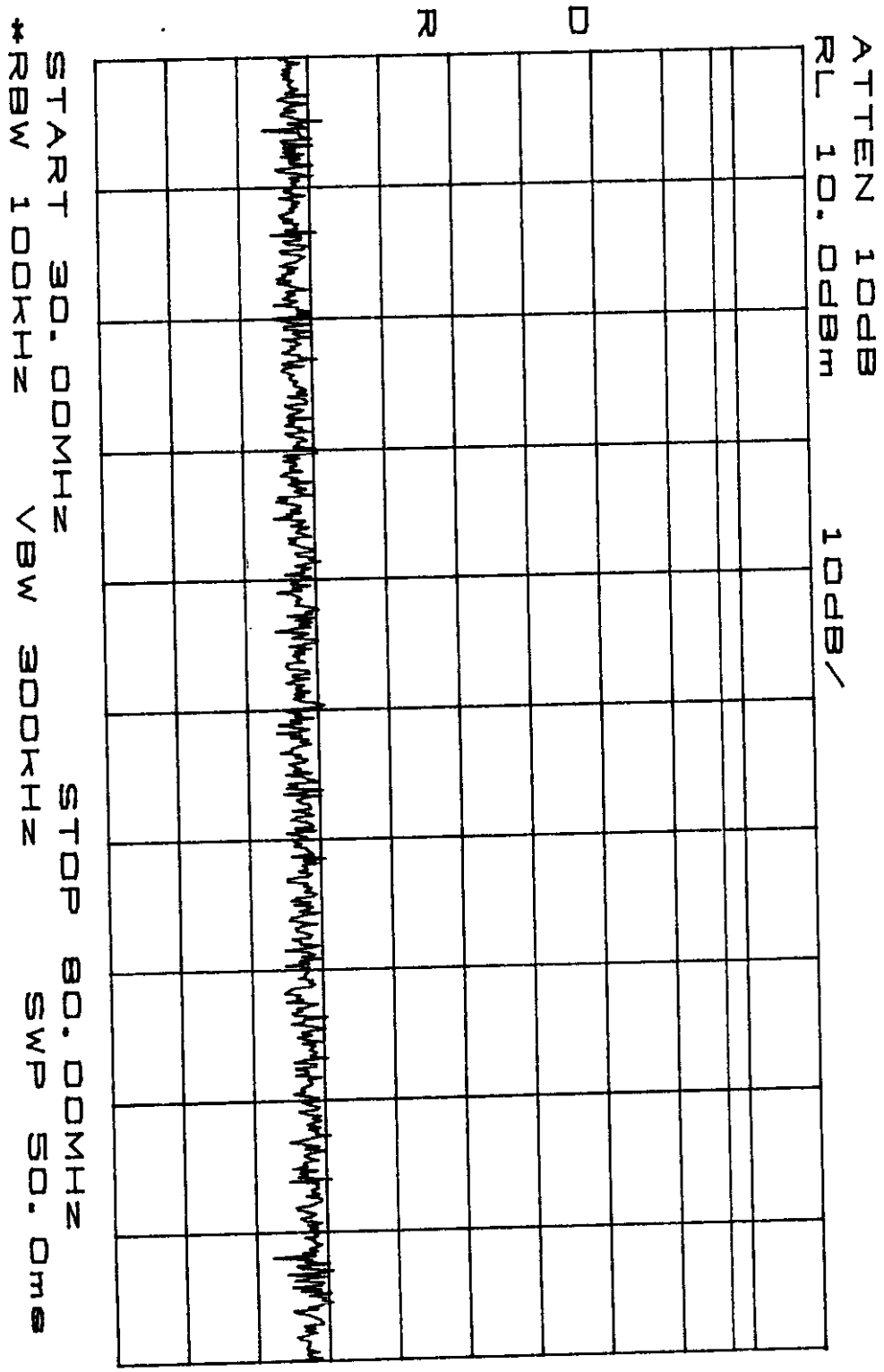
GENERAL TEST SETUP



RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

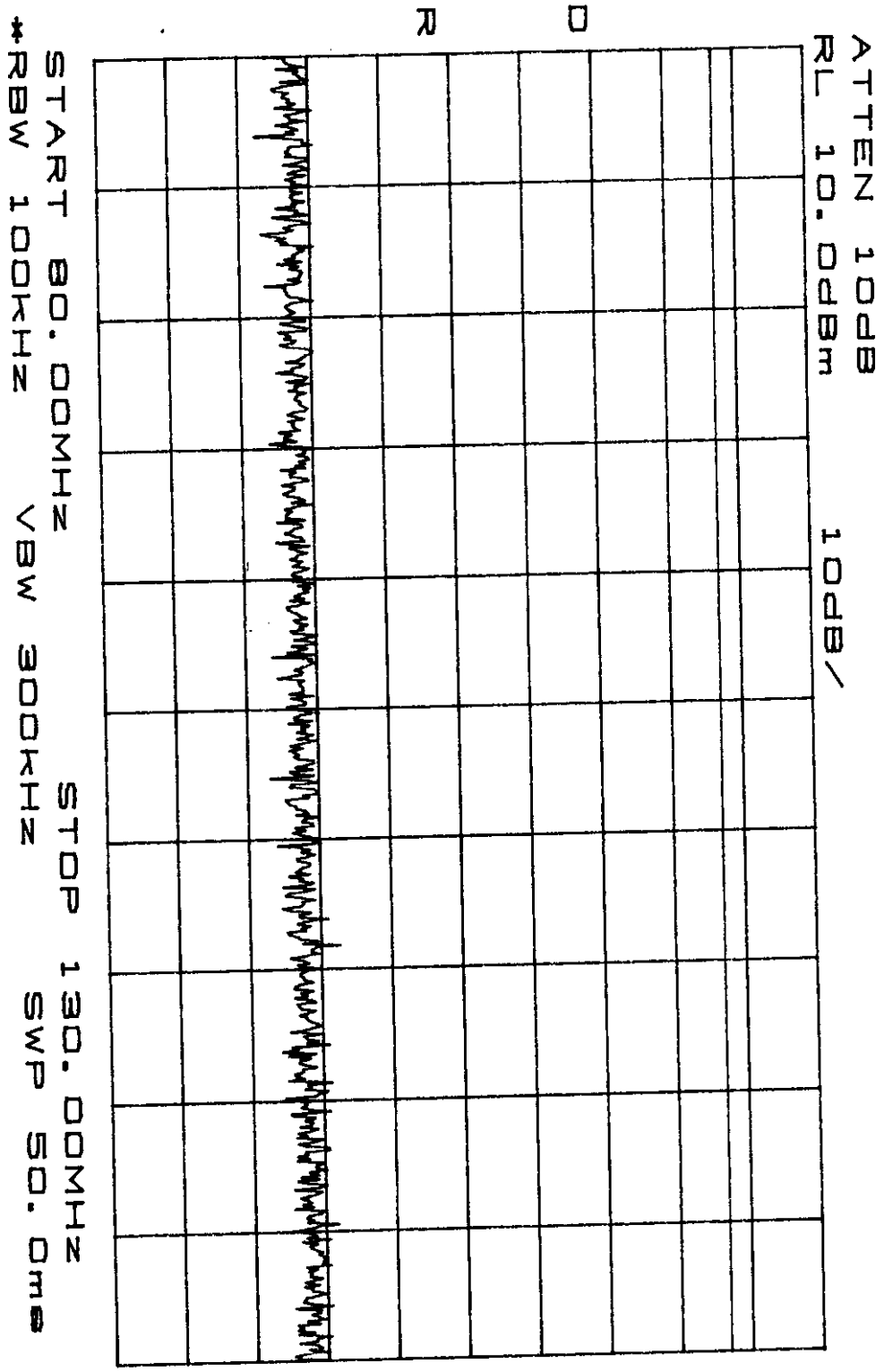
Sheet 1 of 36



RETLIF TESTING LABORATORIES

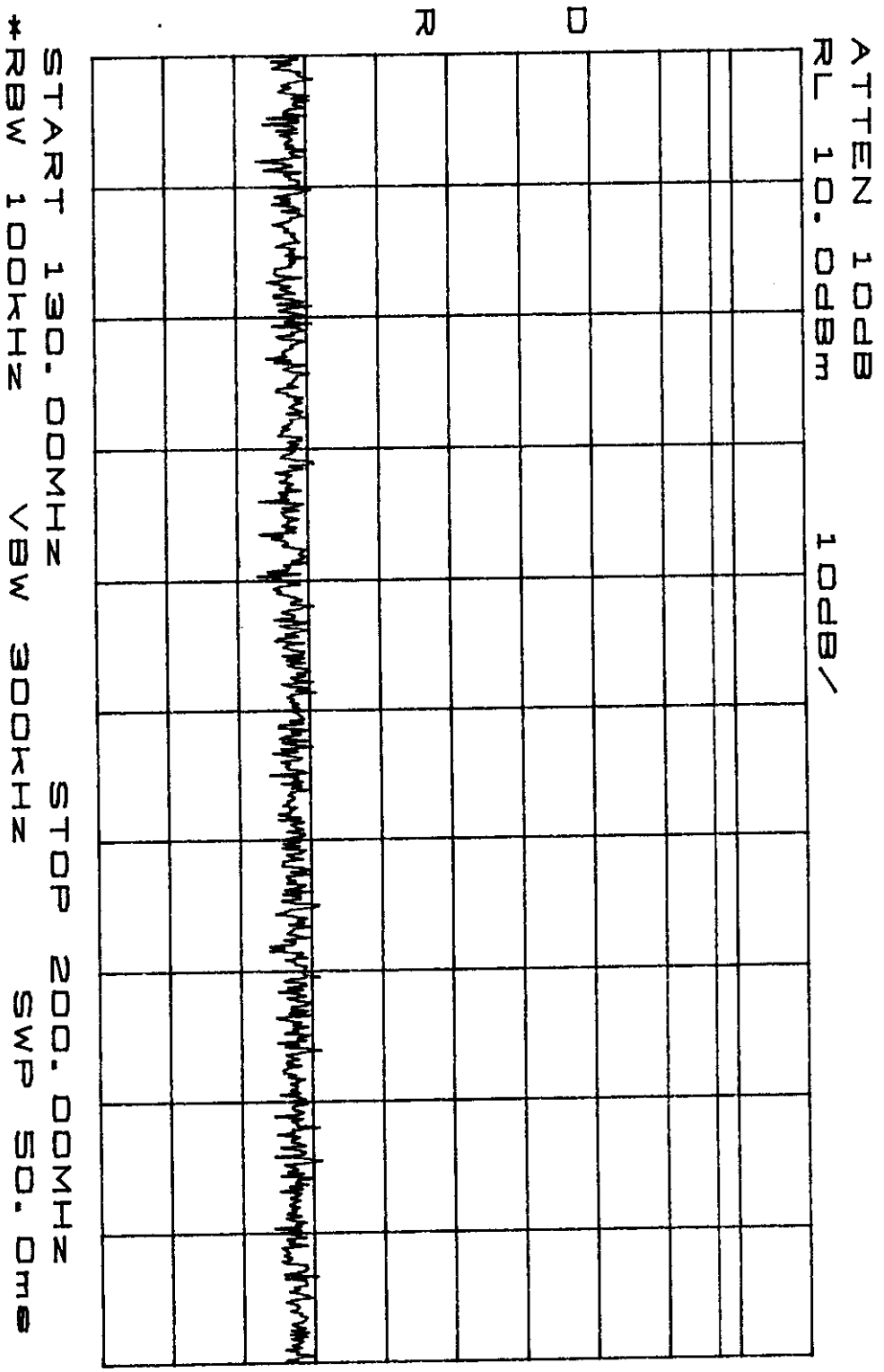
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

Sheet 2 of 36



RETLIF TESTING LABORATORIES

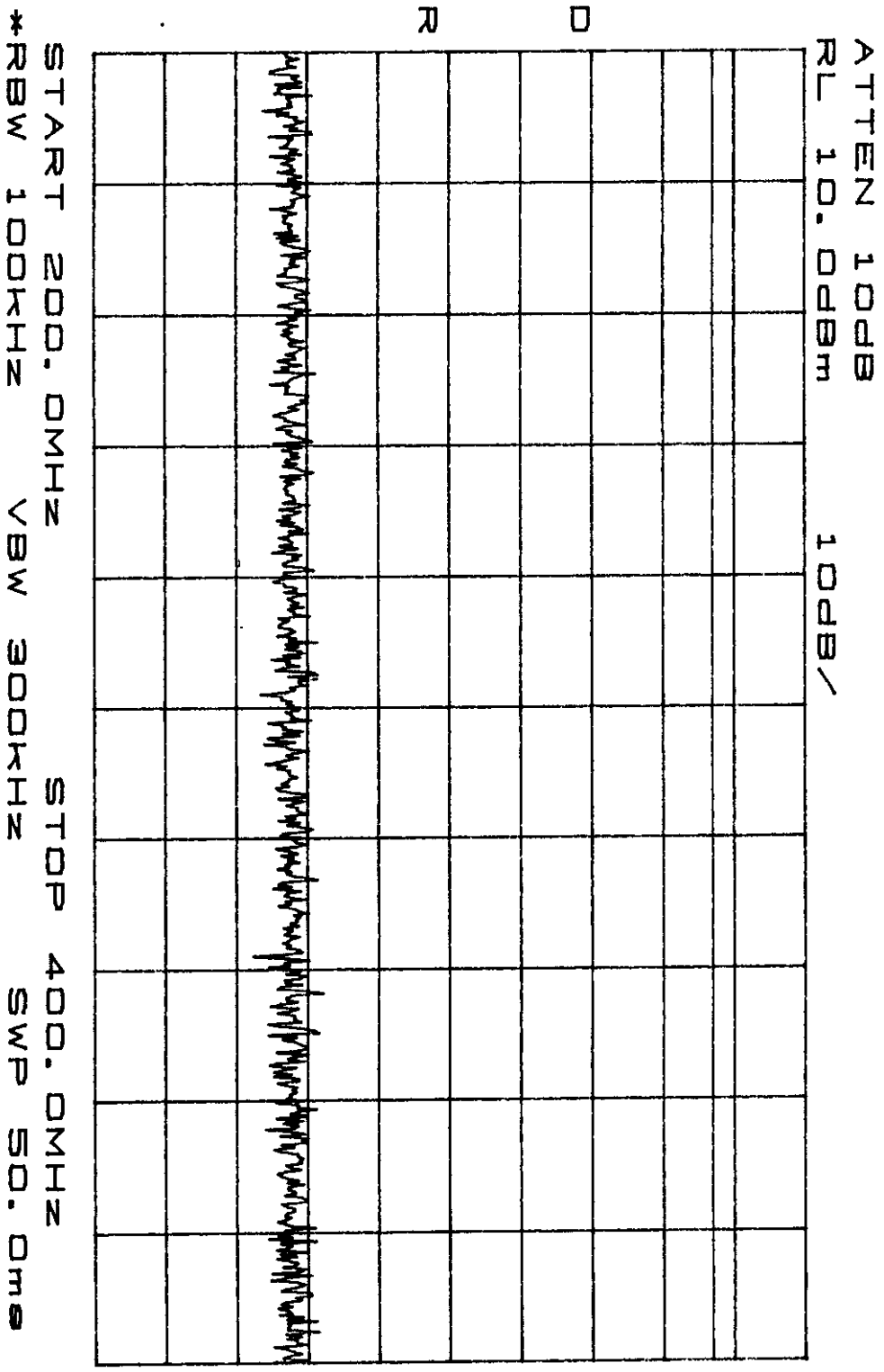
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

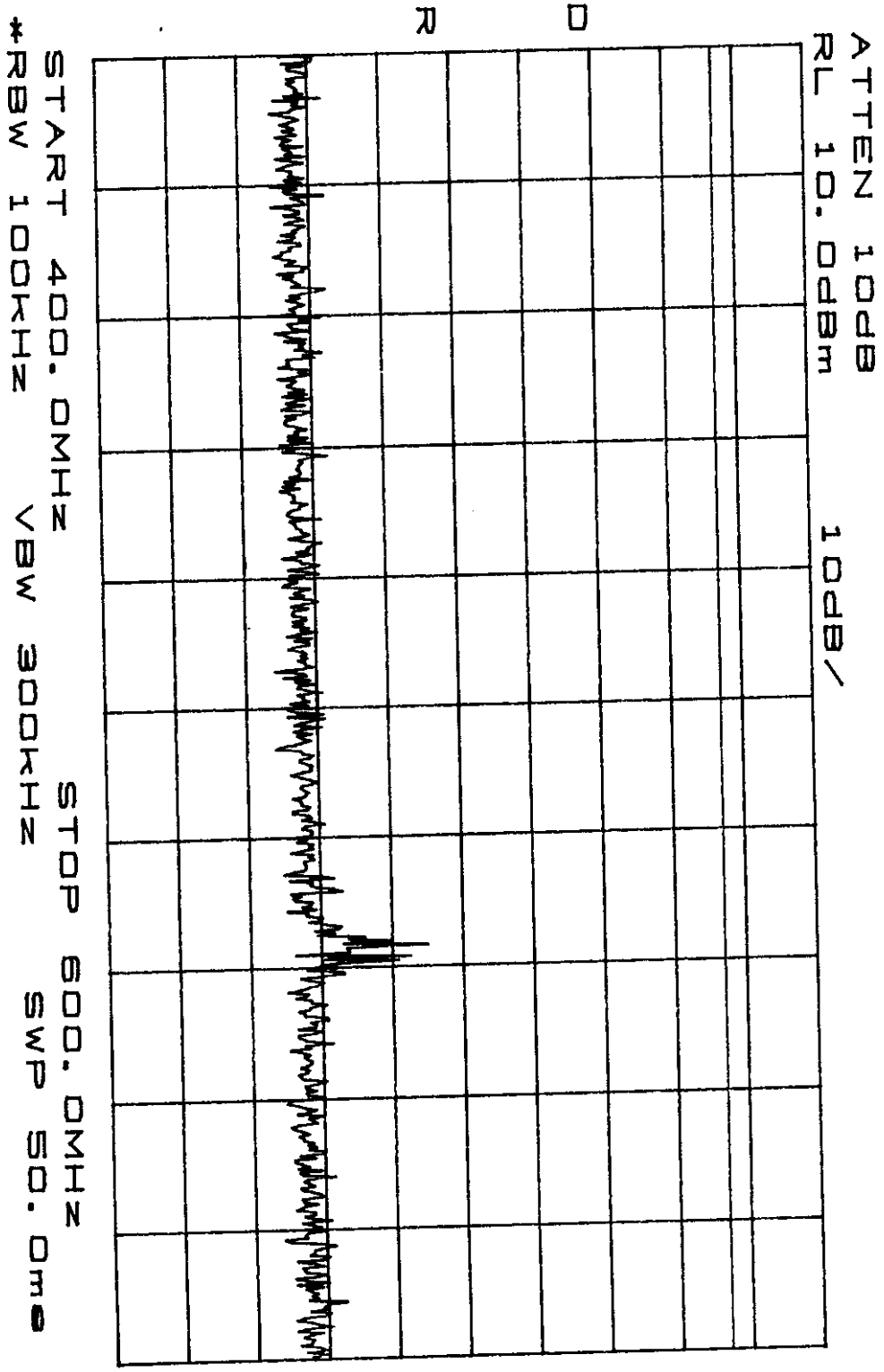
Sheet 4 of 36



RETLIF TESTING LABORATORIES

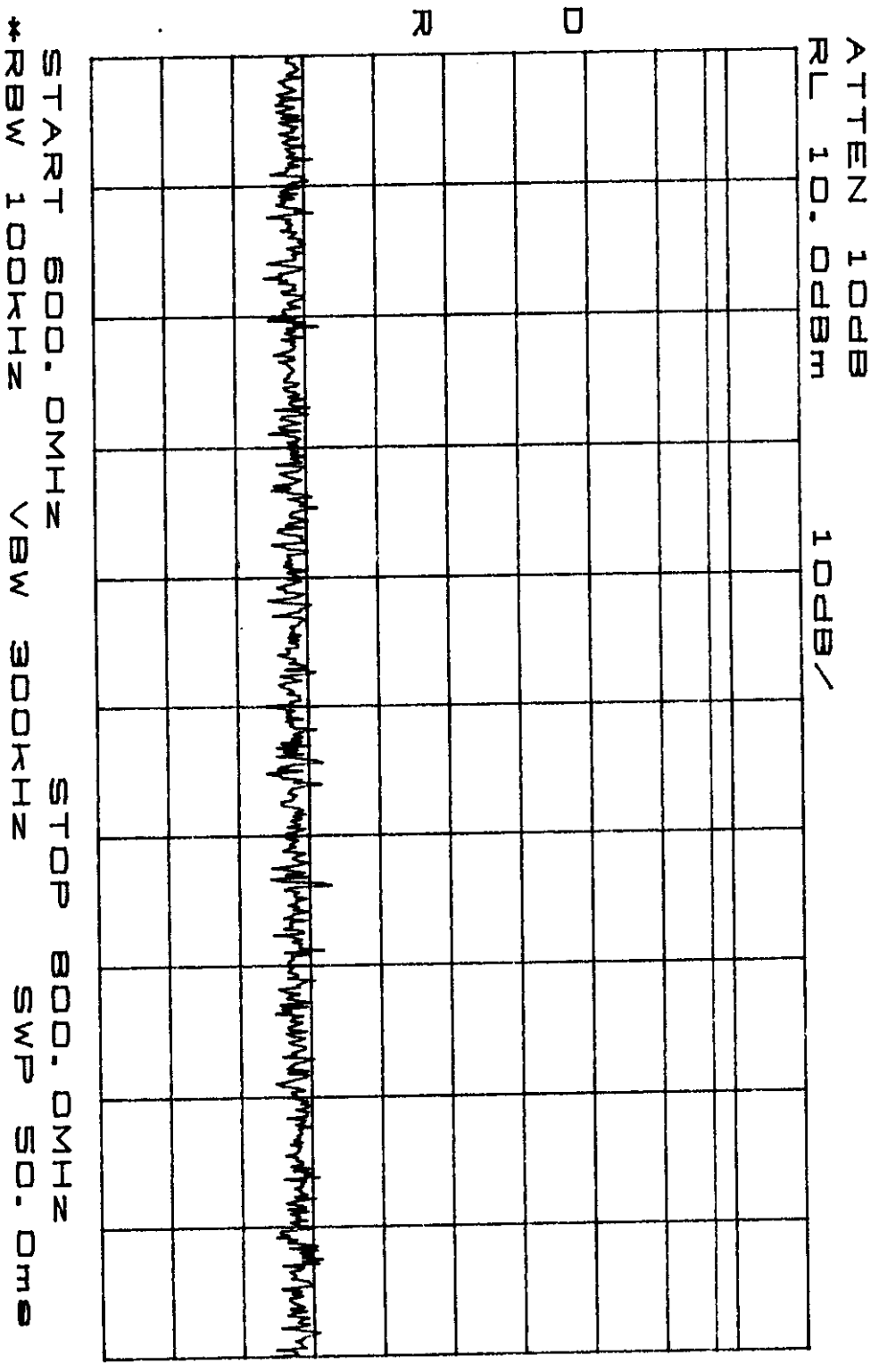
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

Sheet 5 of 36



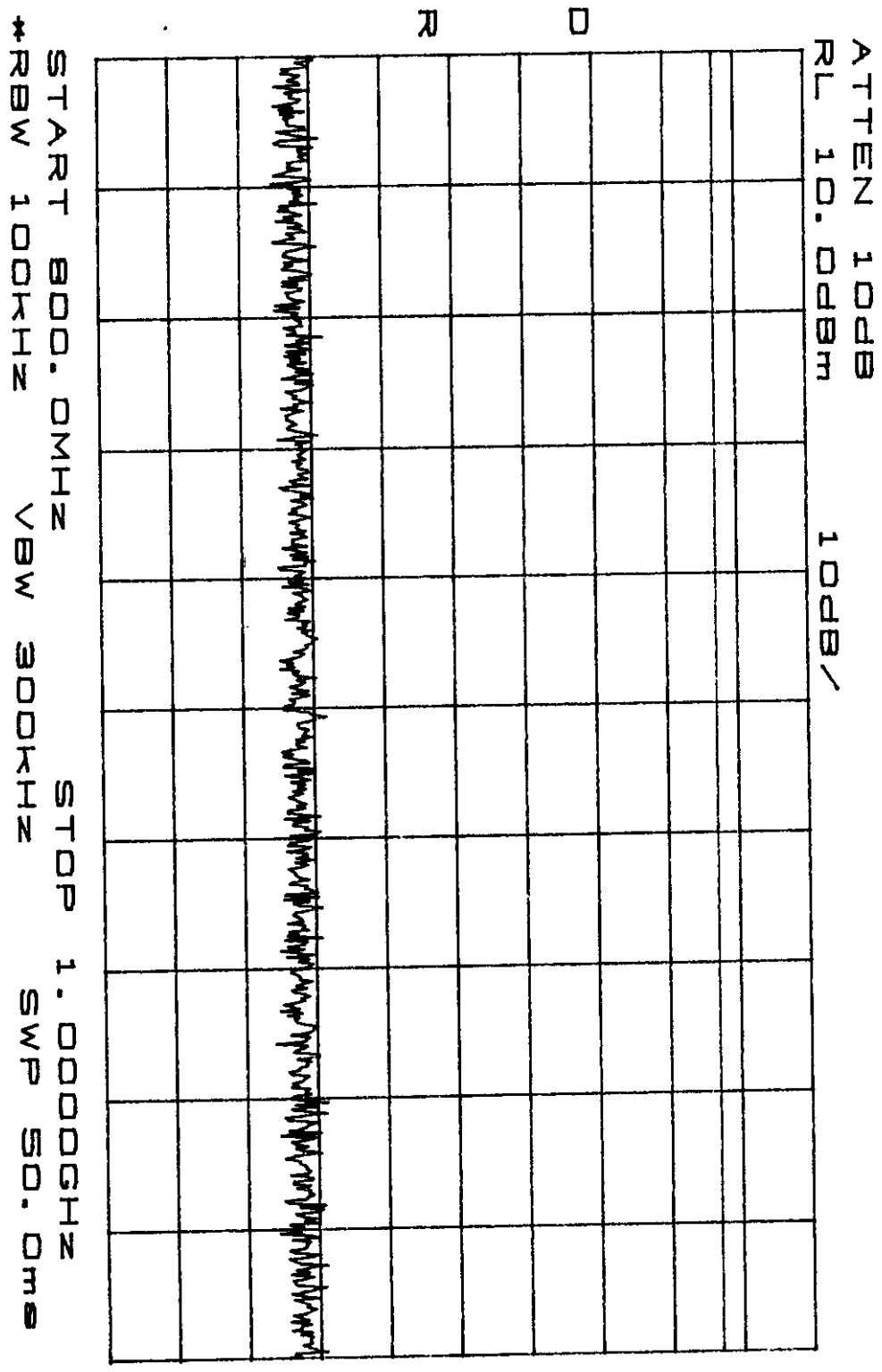
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



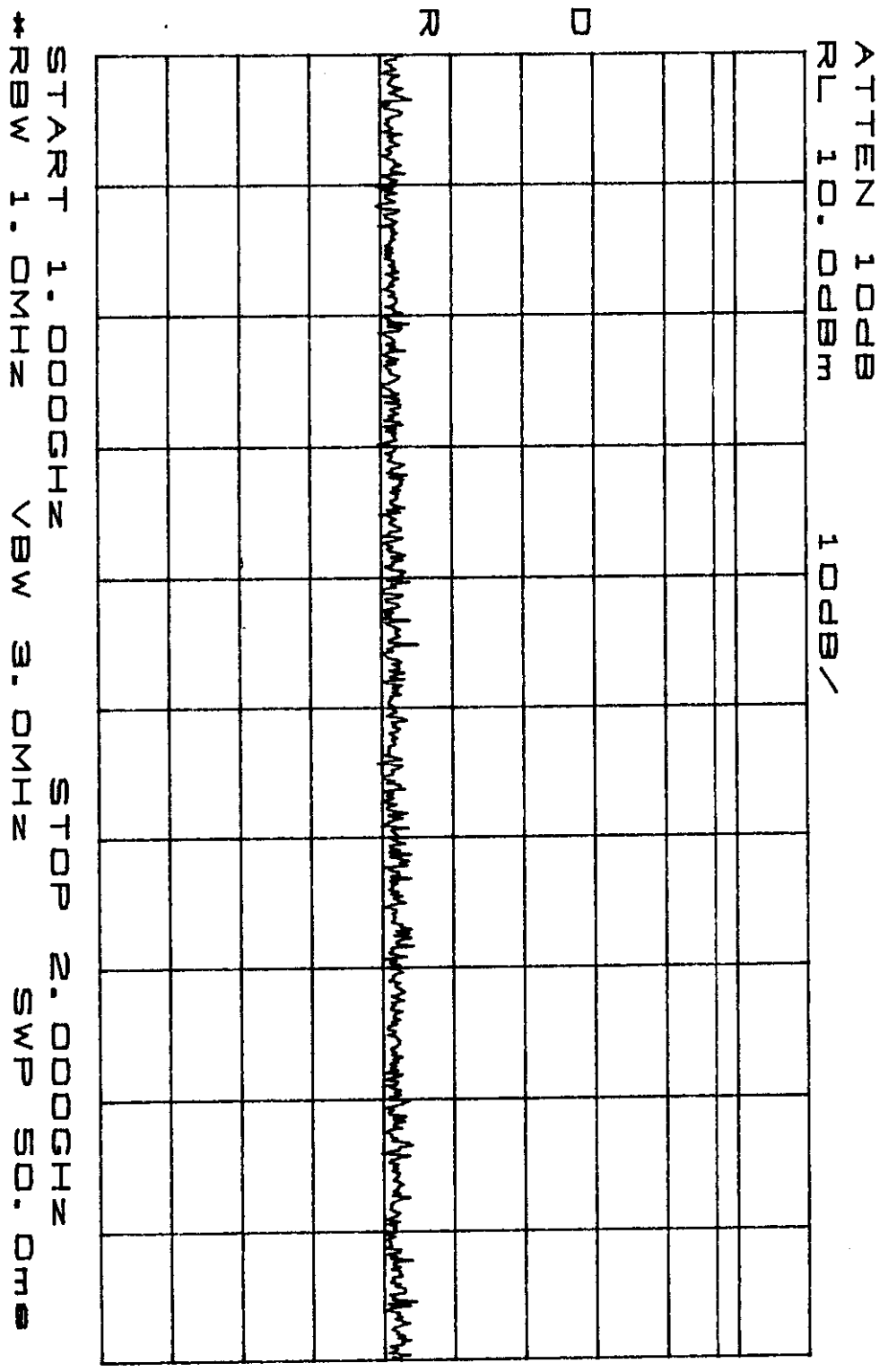
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



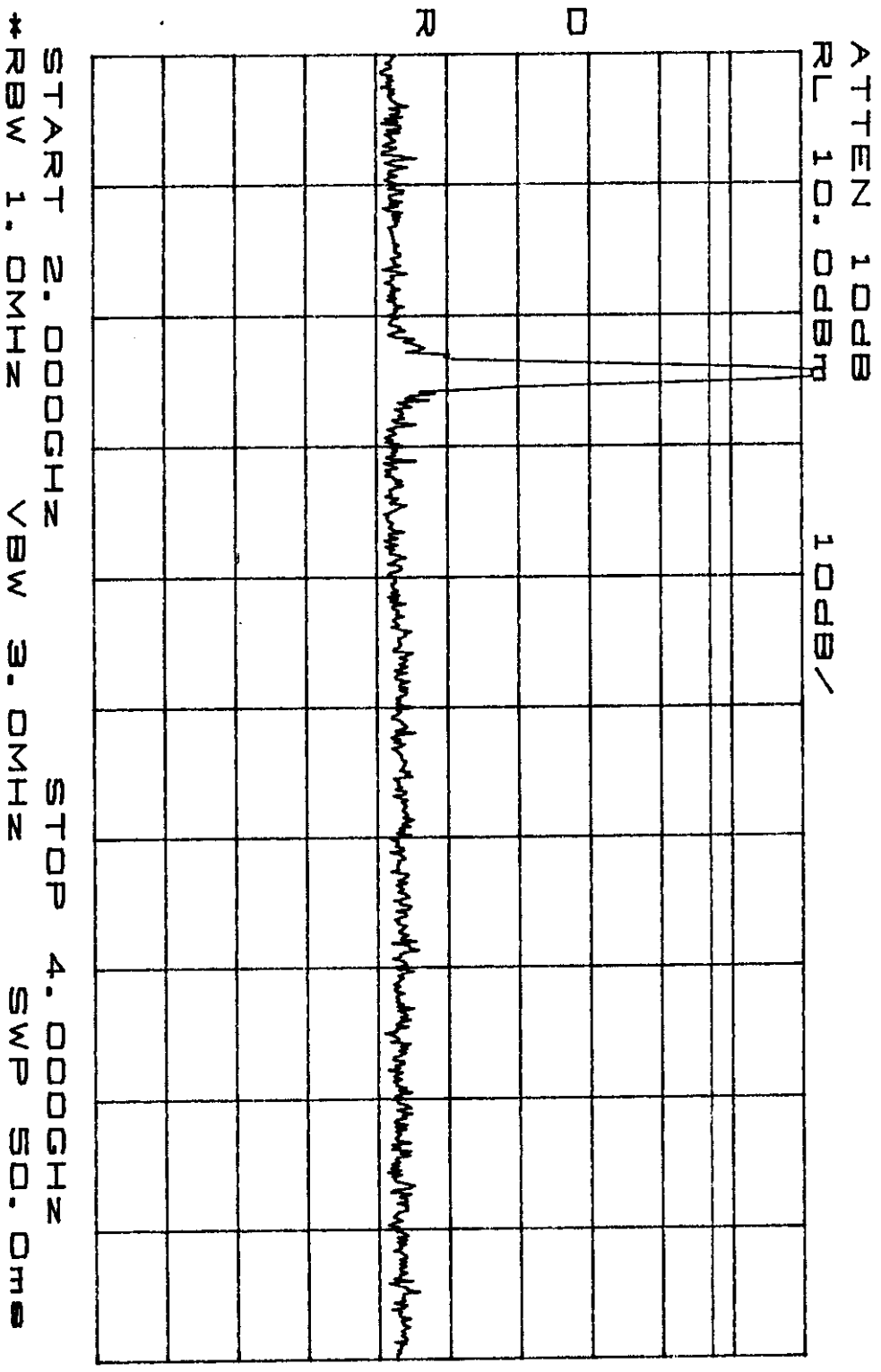
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



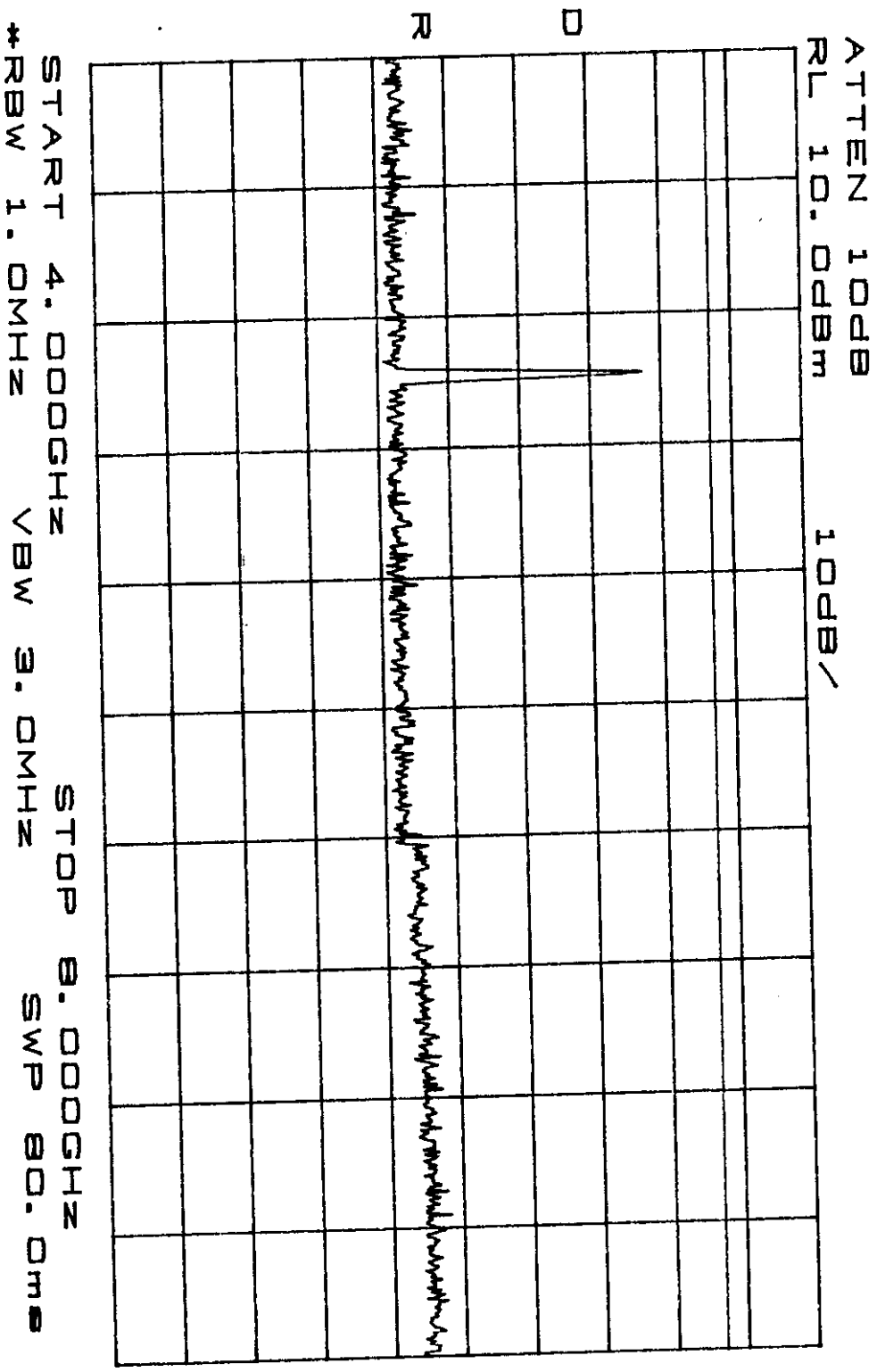
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



RETLIF TESTING LABORATORIES

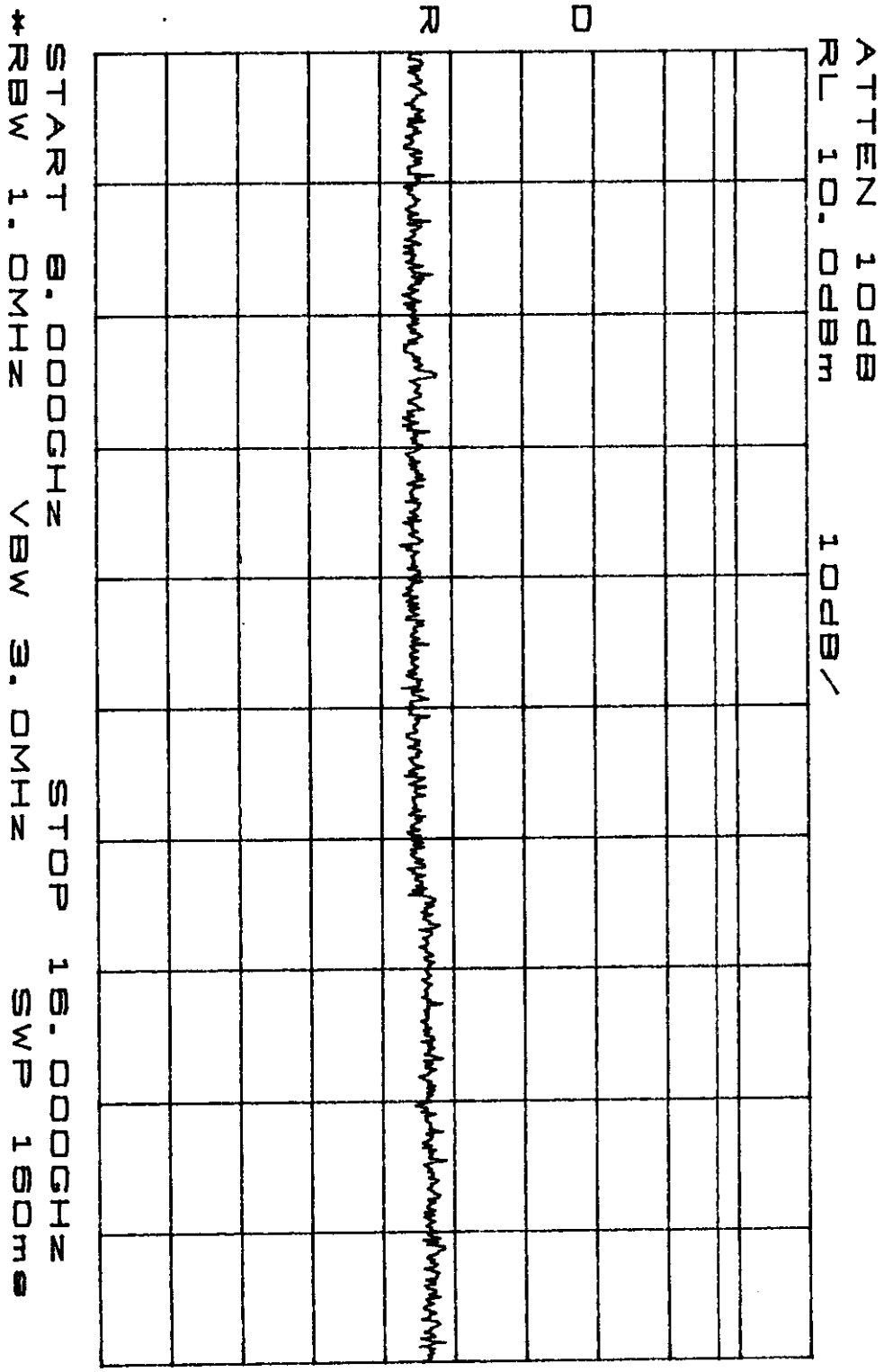
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



RETLIF TESTING LABORATORIES

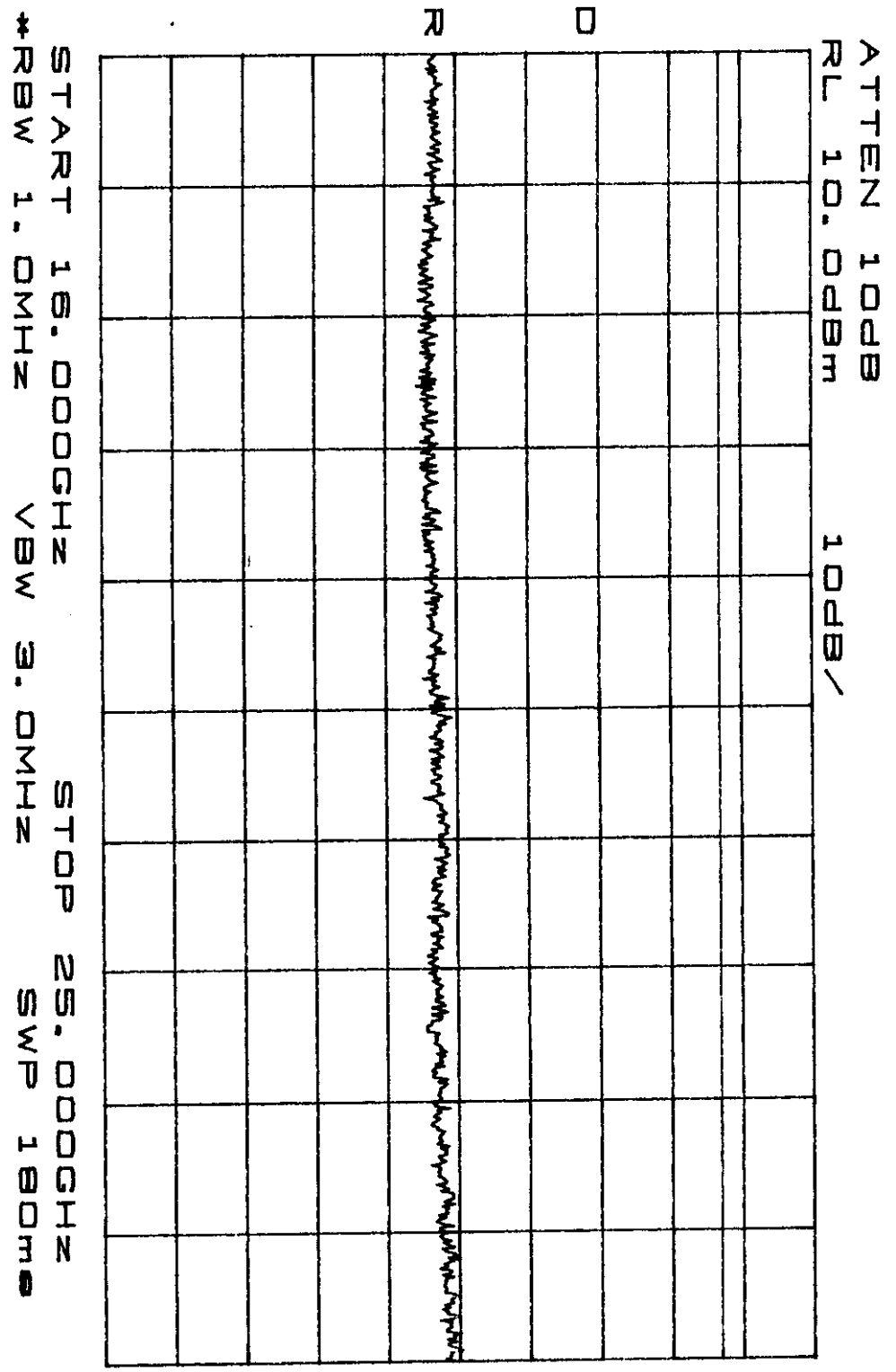
Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		

Sheet 11 of 36



RETLIF TESTING LABORATORIES

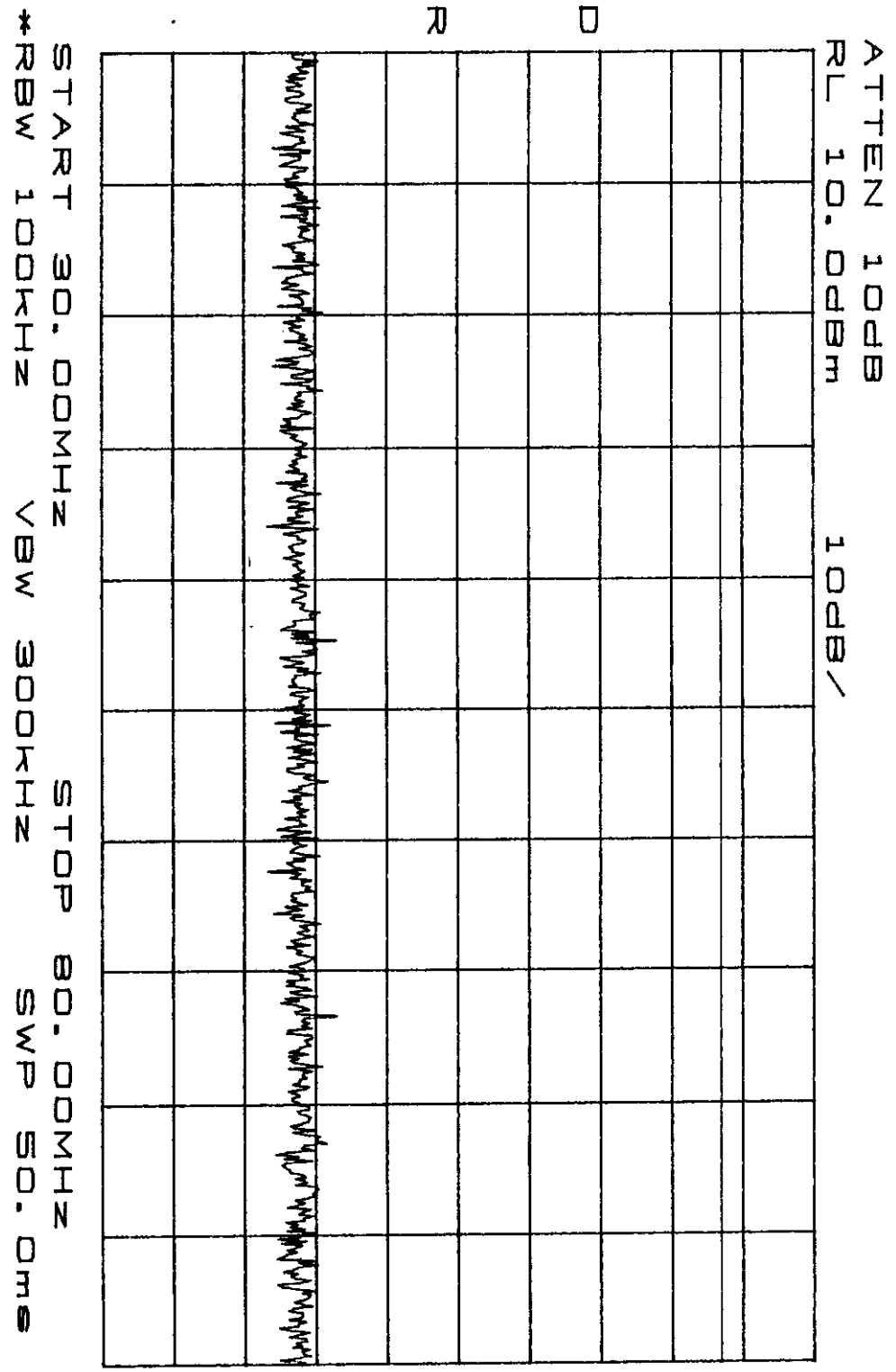
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2492.0 MHz		



RETLIF TESTING LABORATORIES

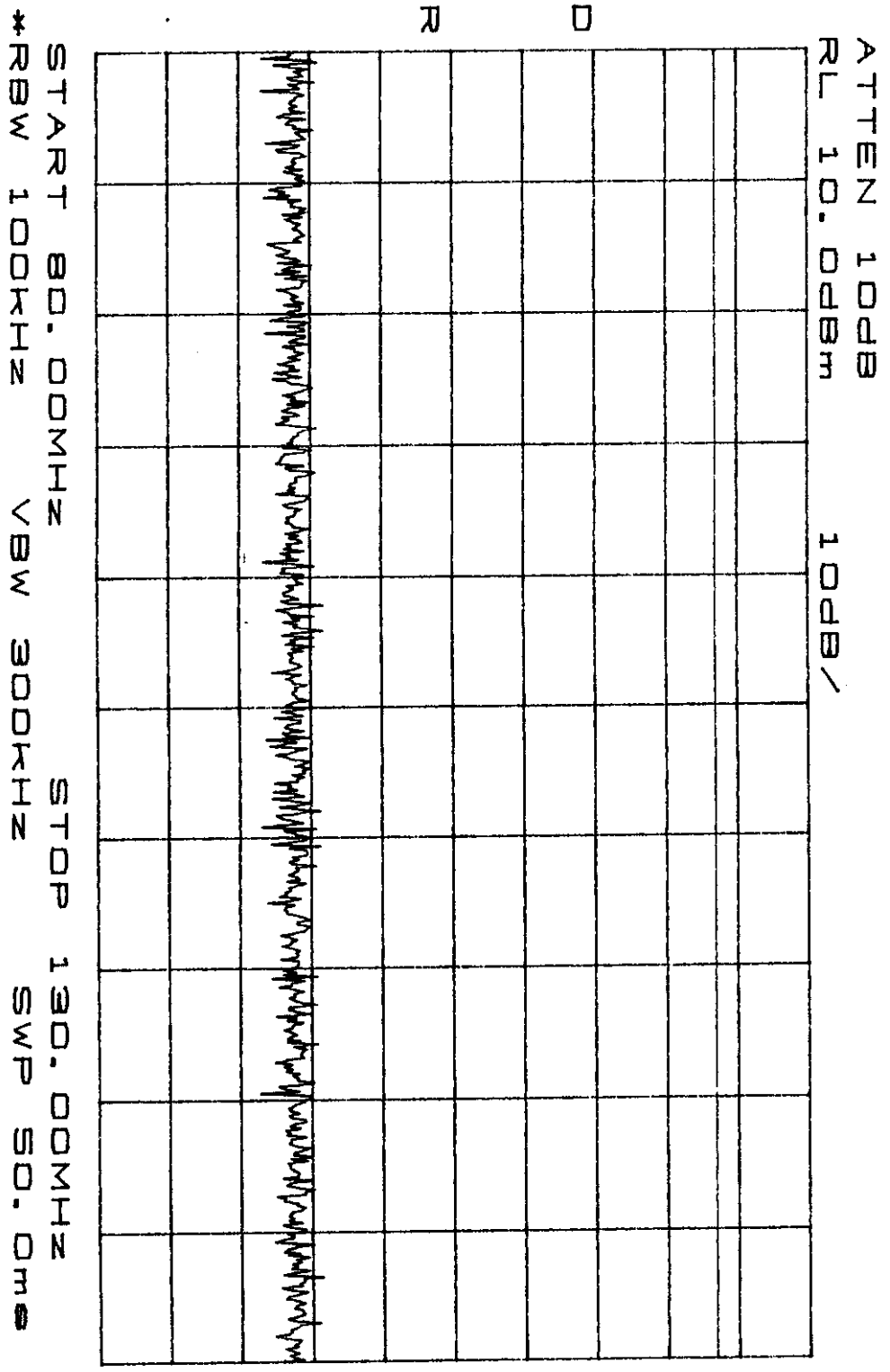
Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		

Sheet 13 of 36



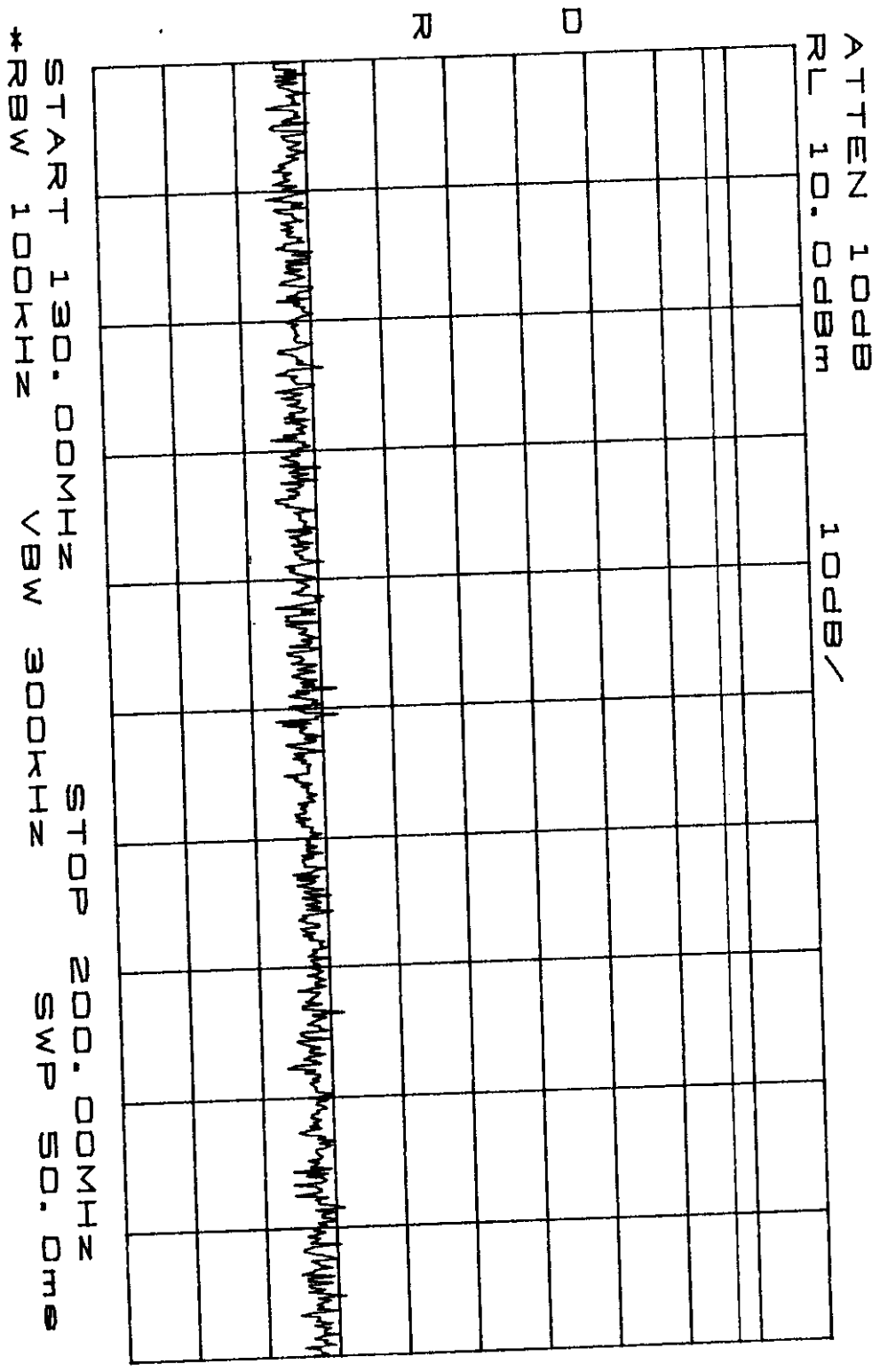
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



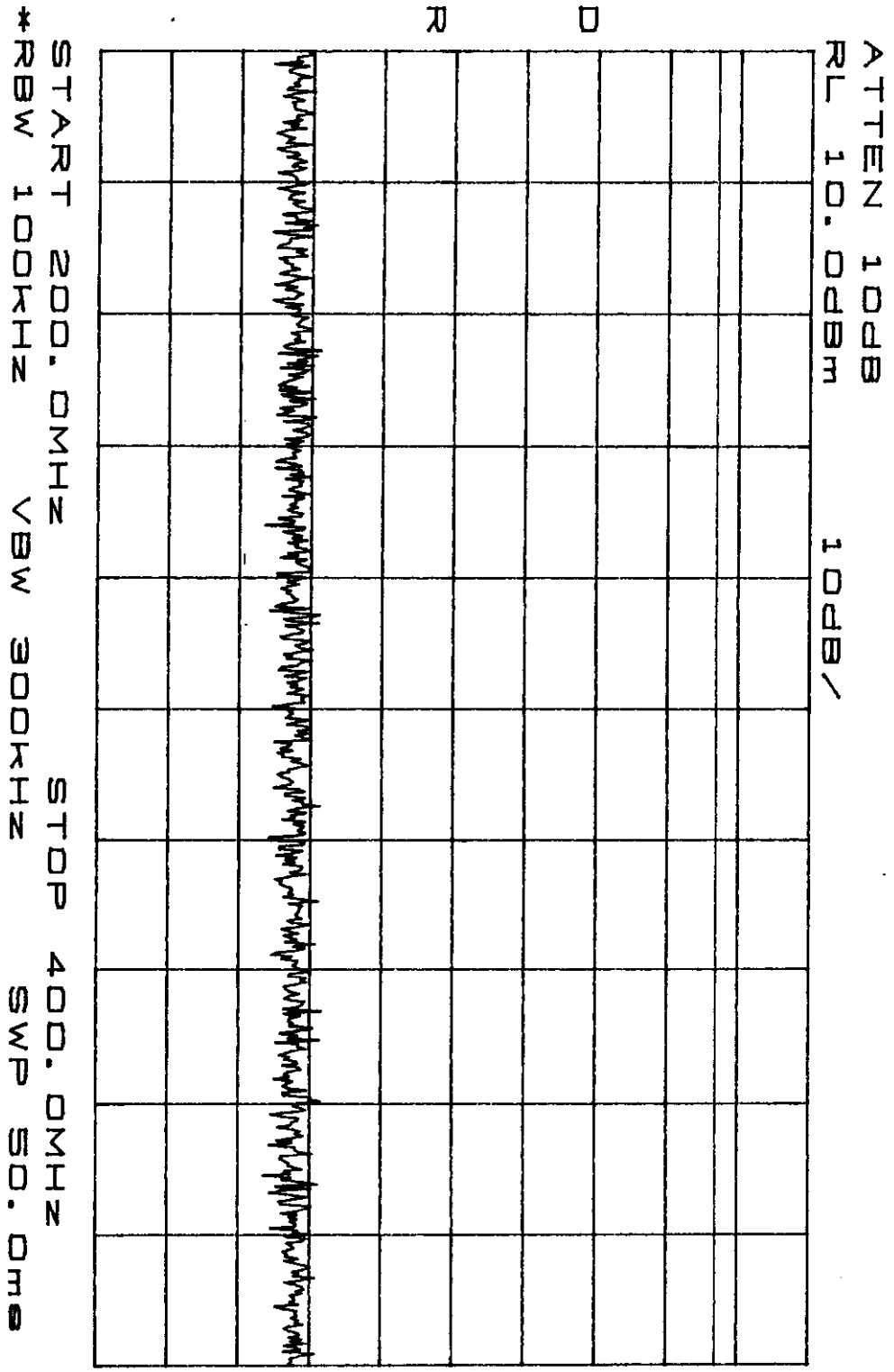
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



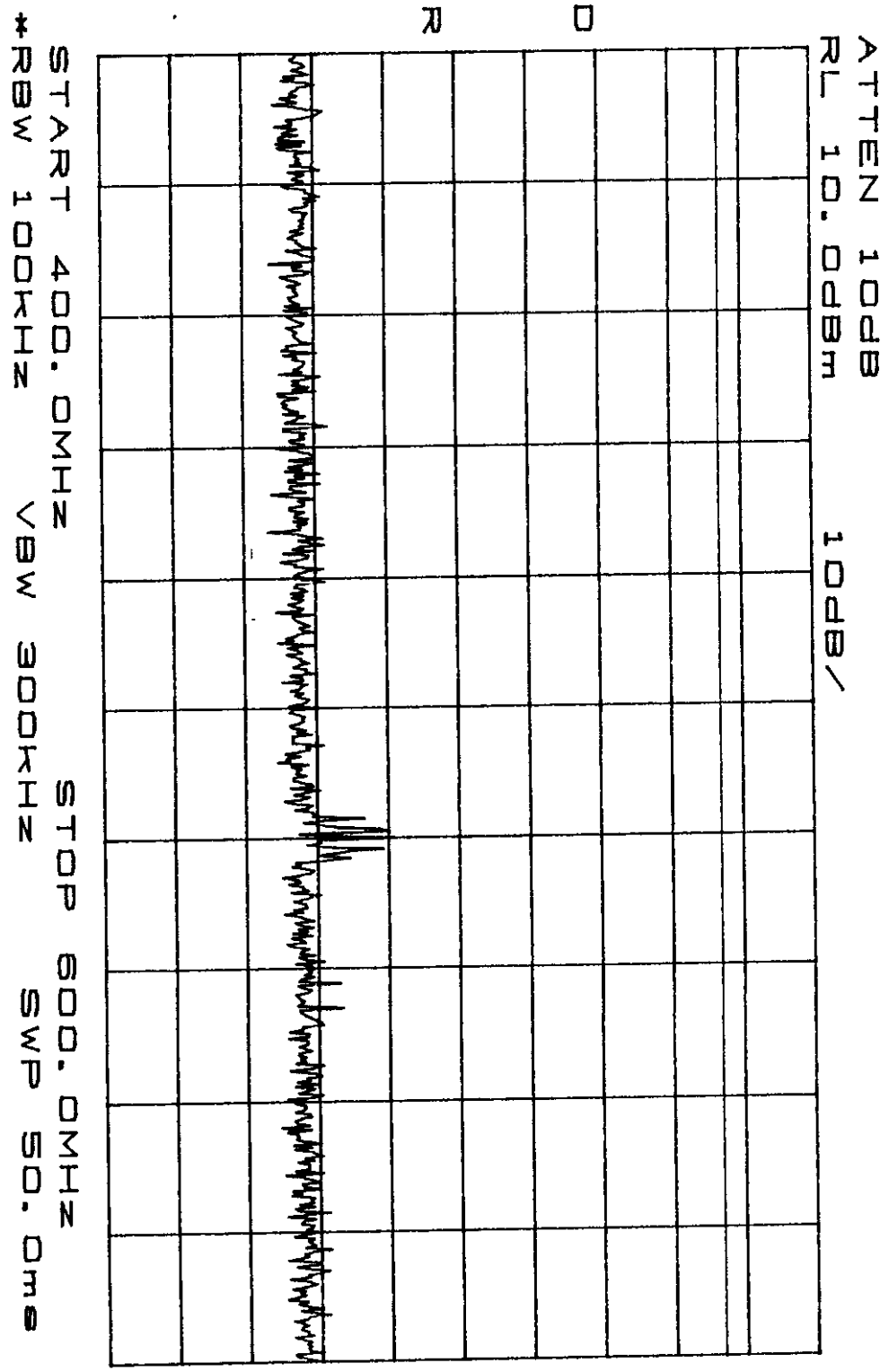
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



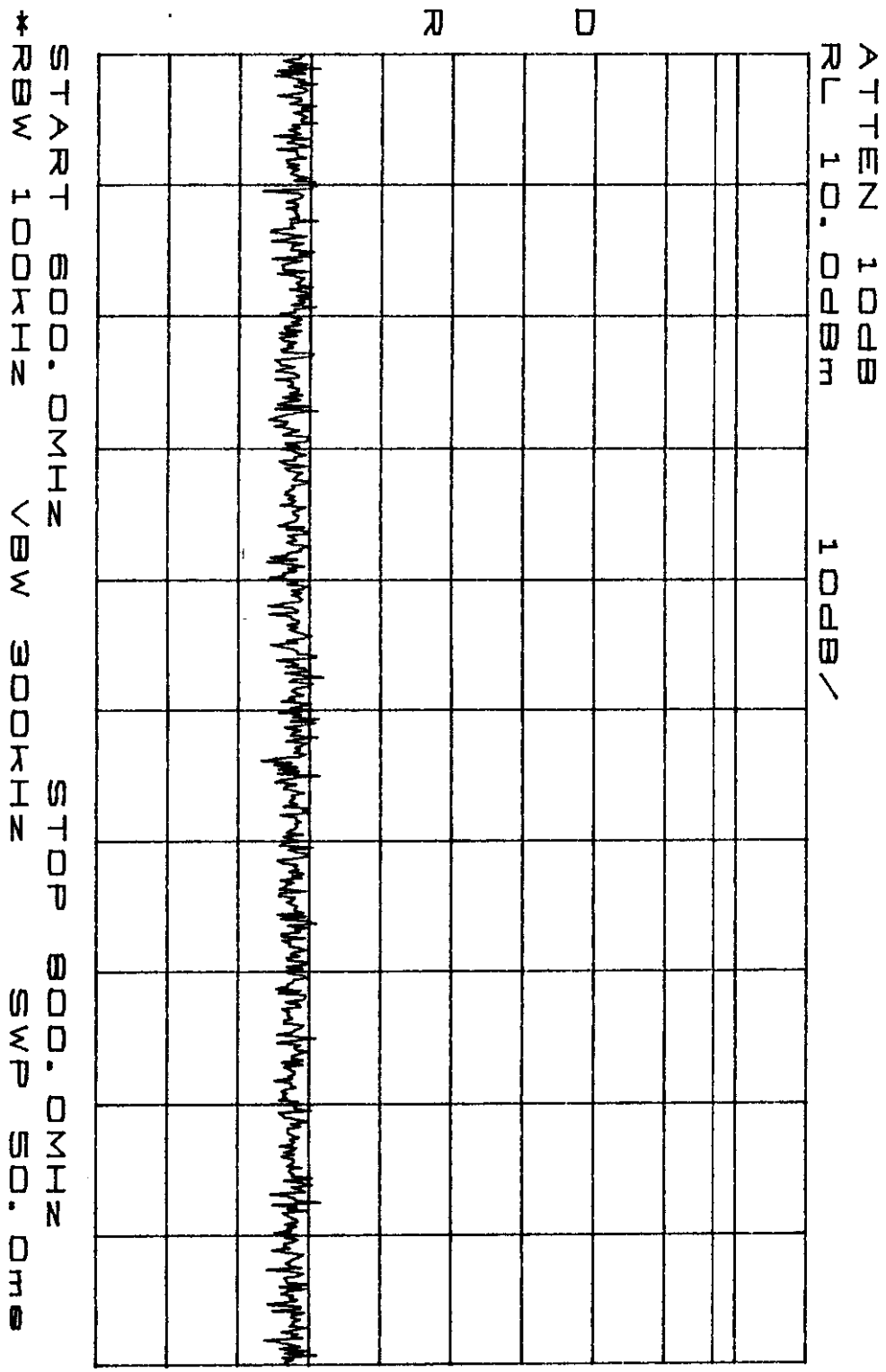
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



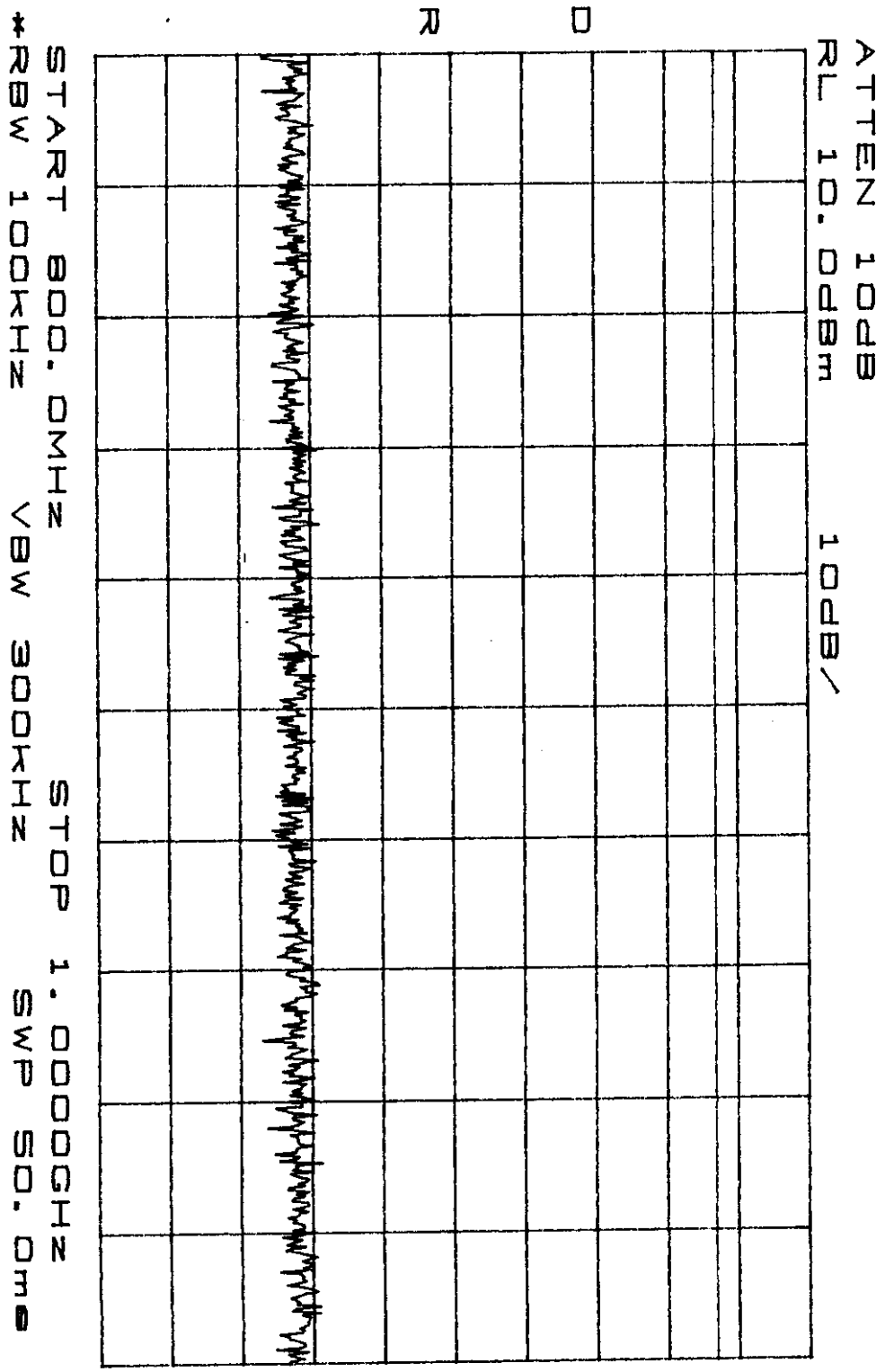
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



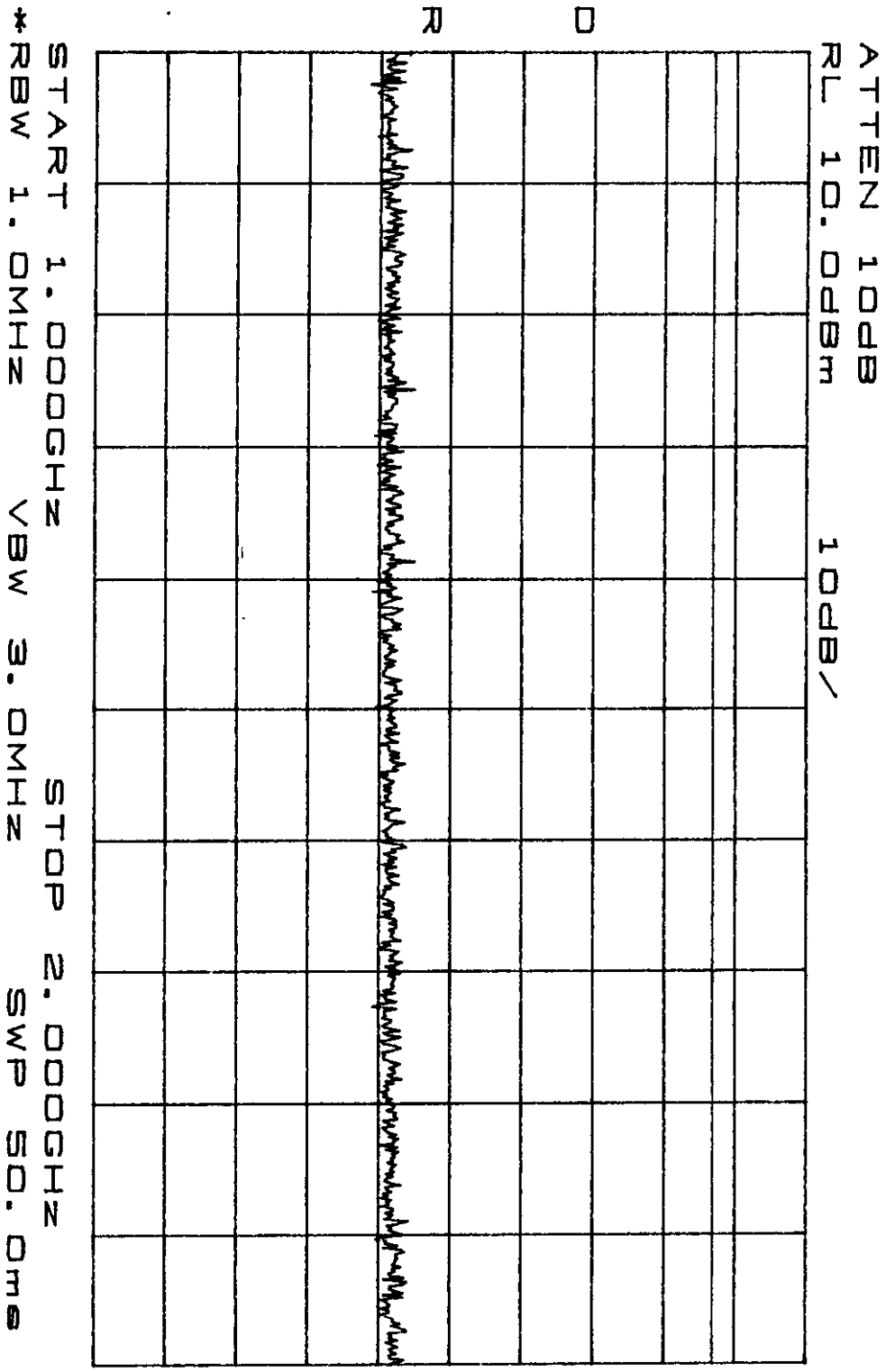
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



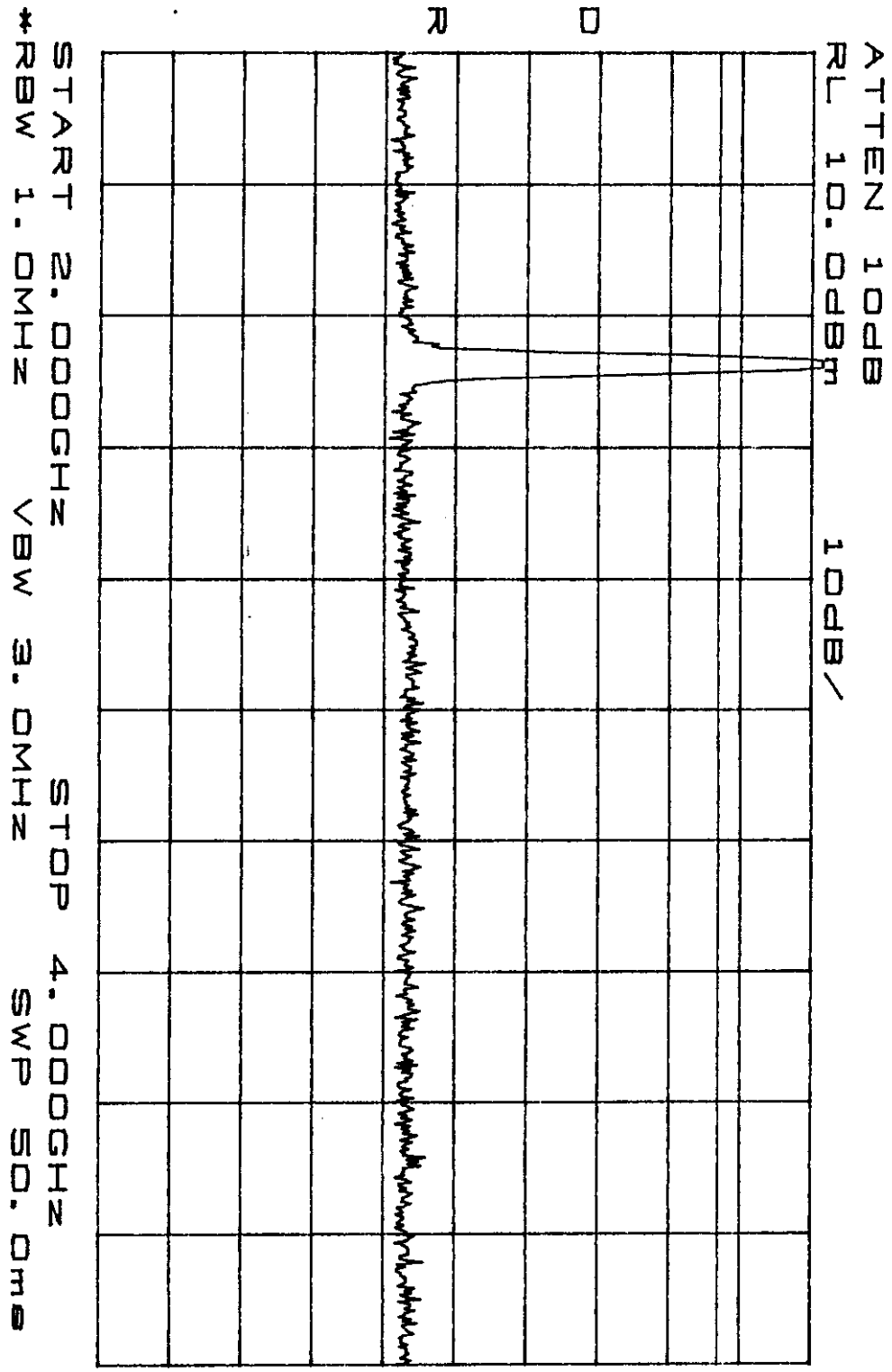
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



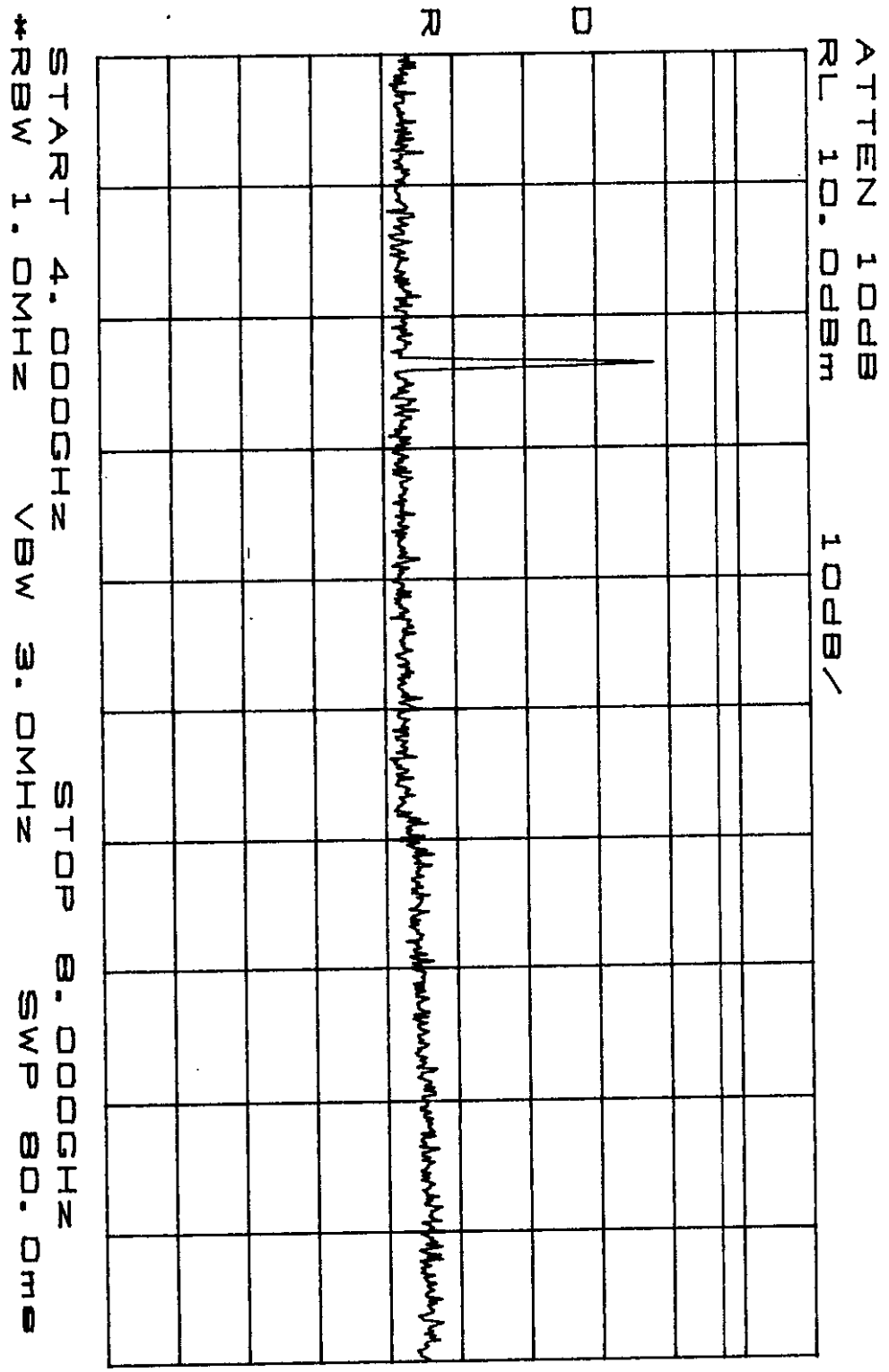
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



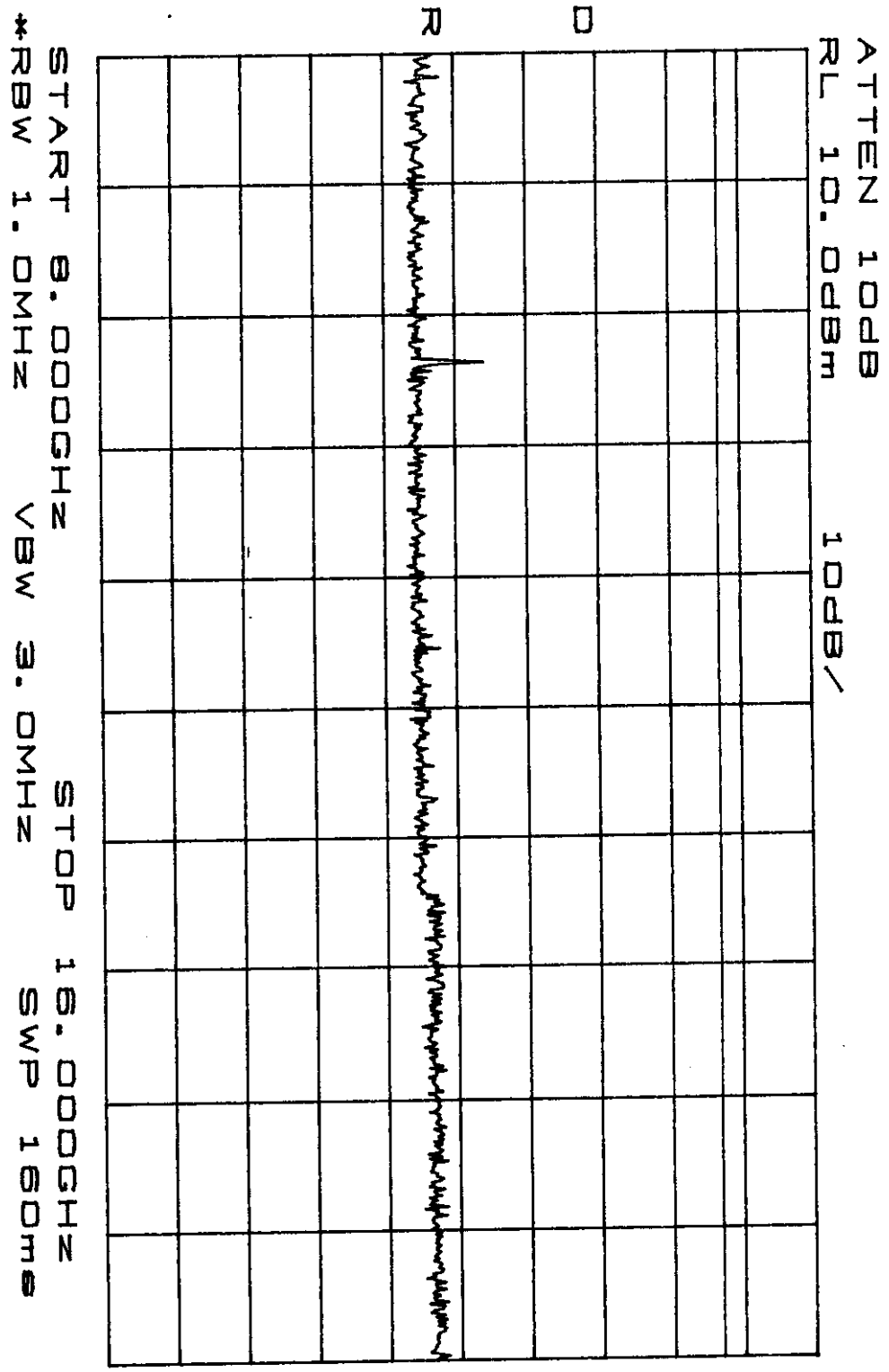
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



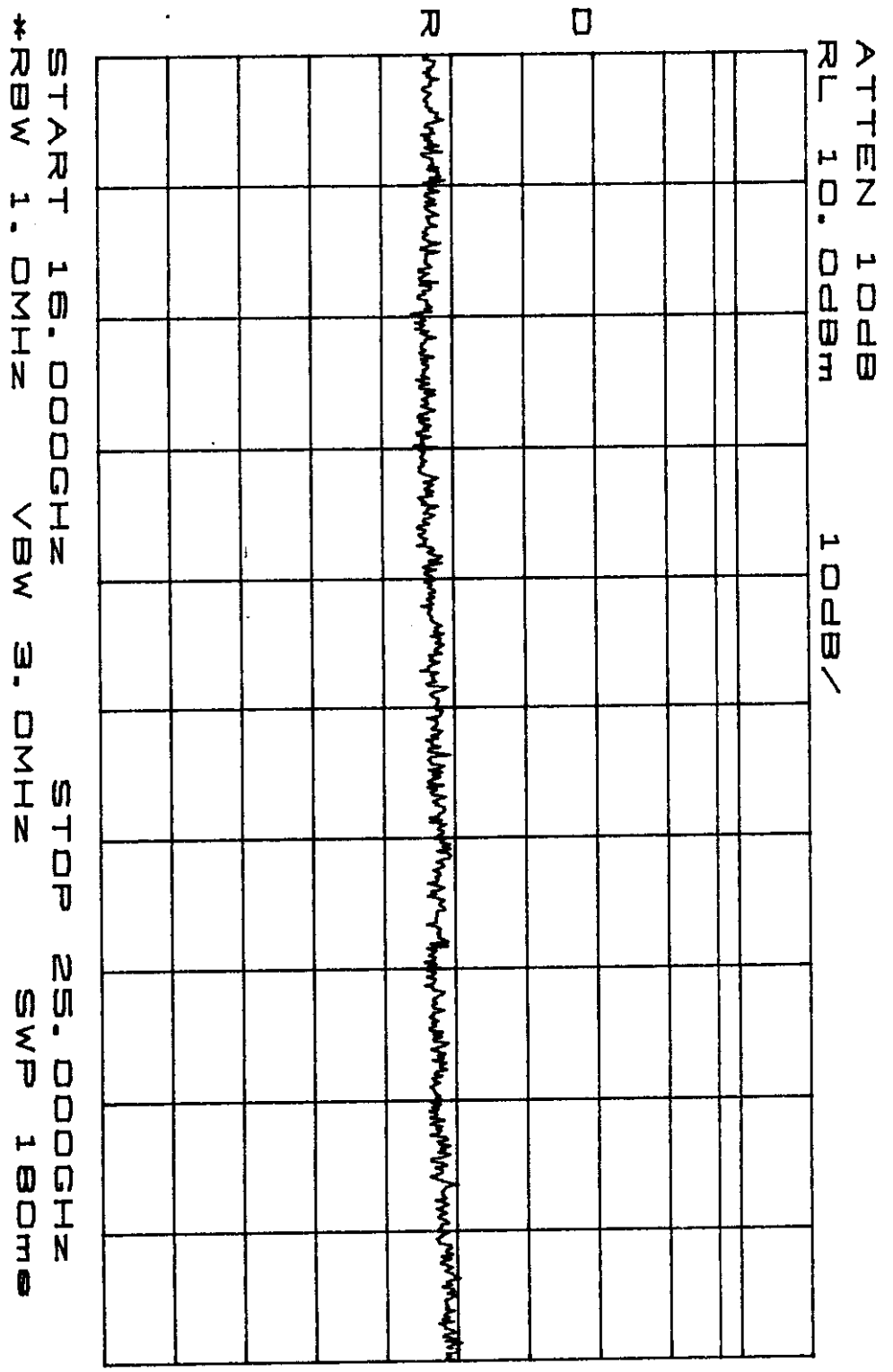
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



RETLIF TESTING LABORATORIES

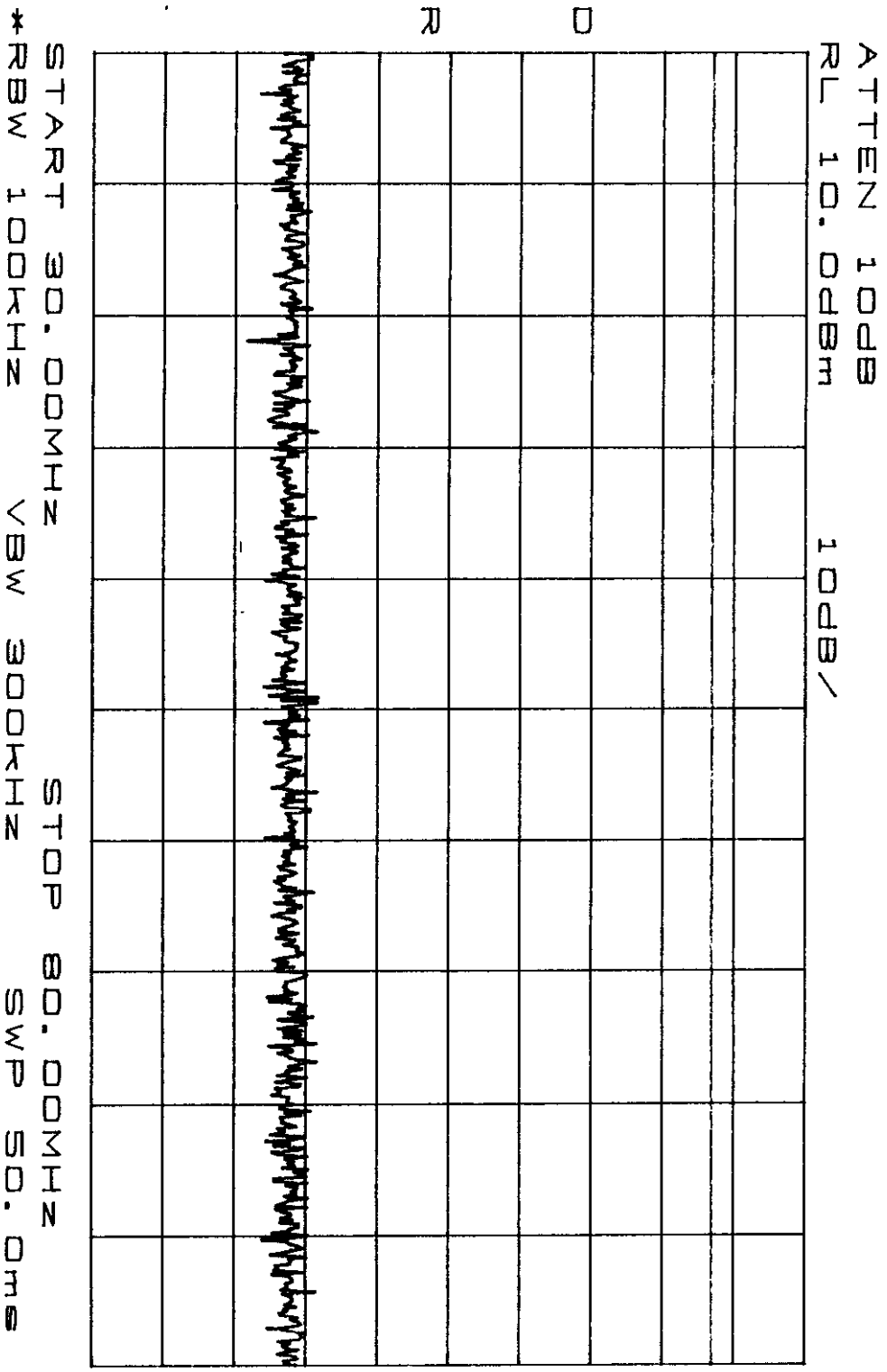
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2475.5 MHz		



RETLIF TESTING LABORATORIES

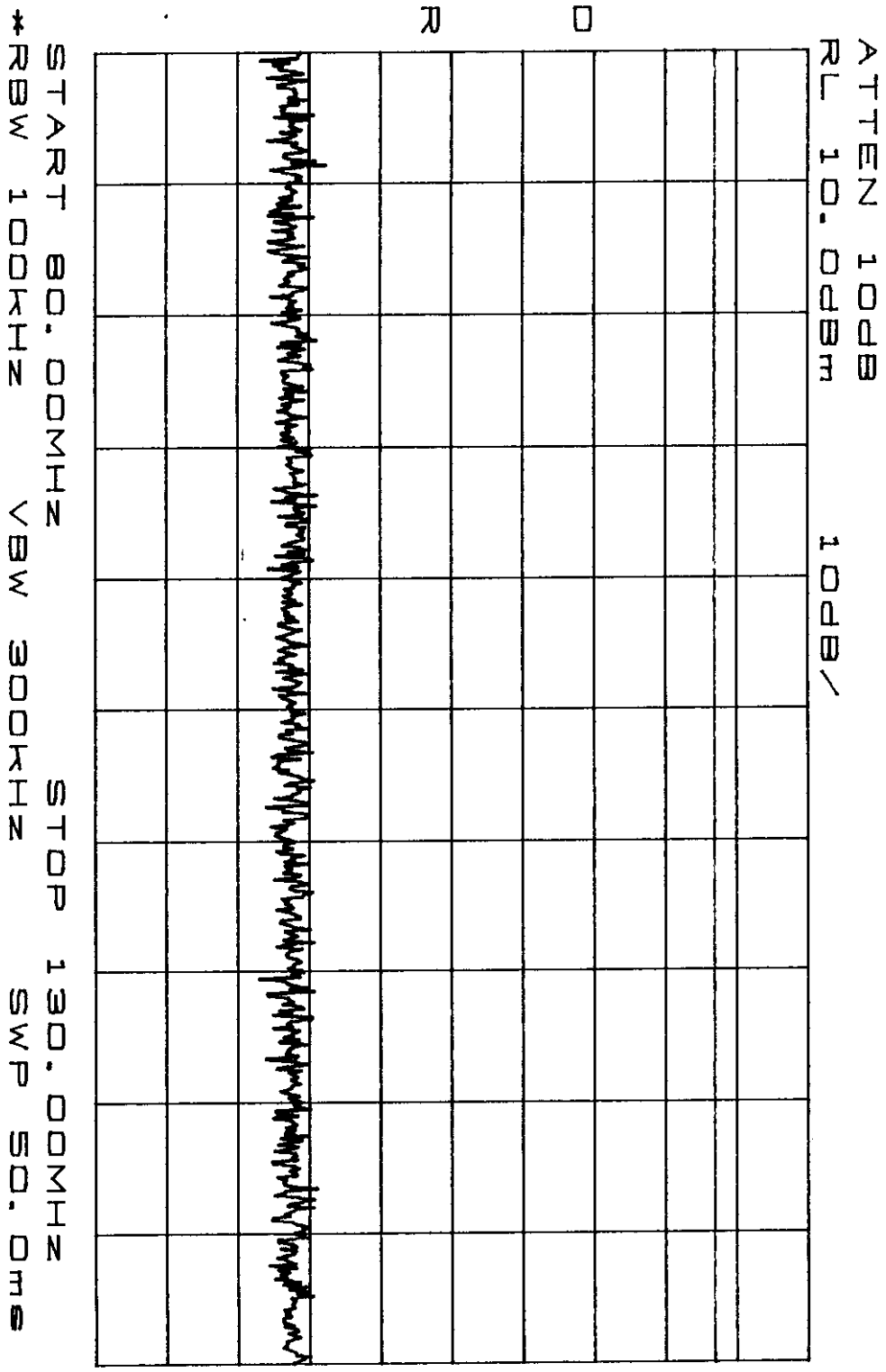
Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		

Sheet 25 of 36



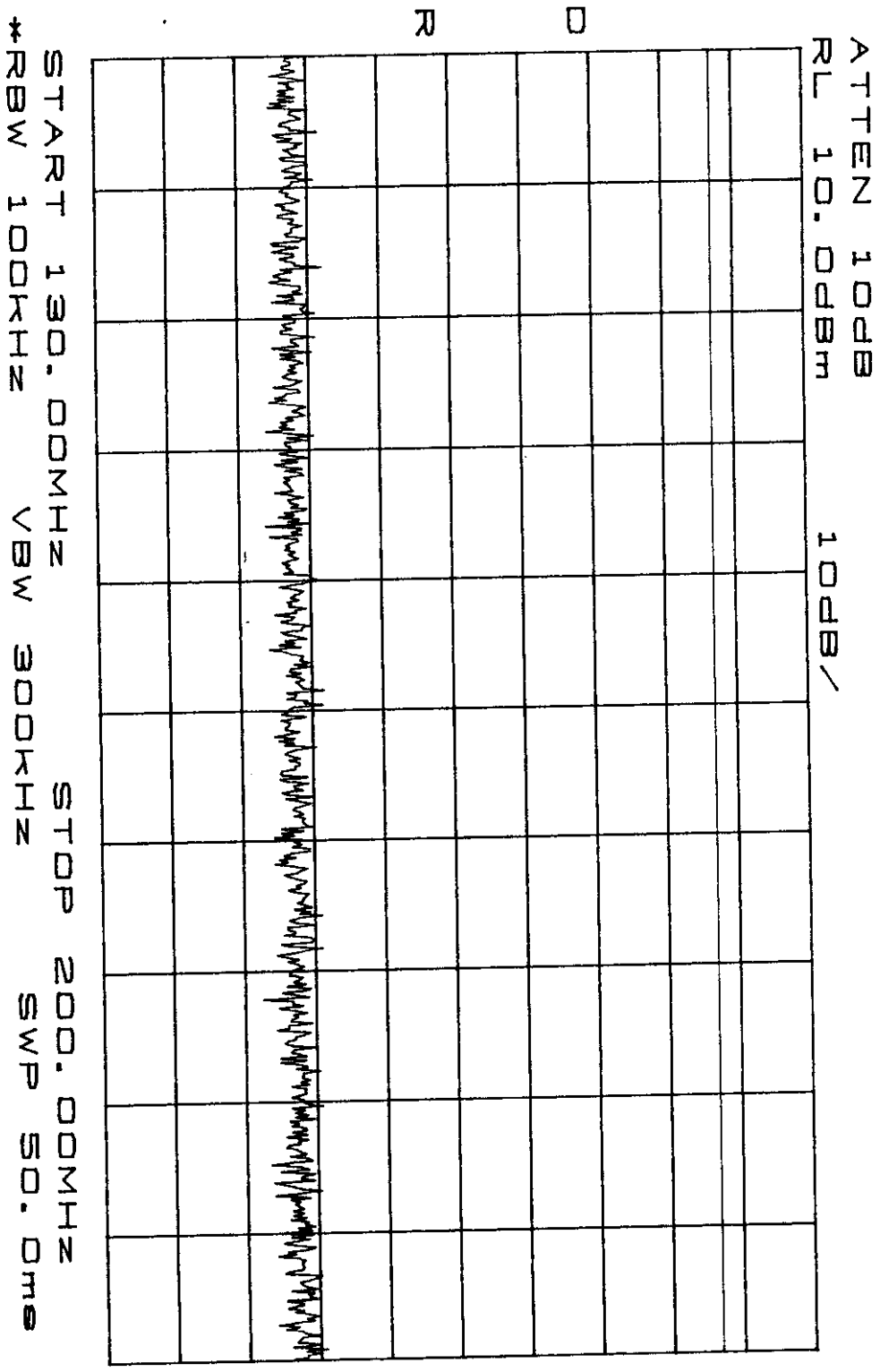
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



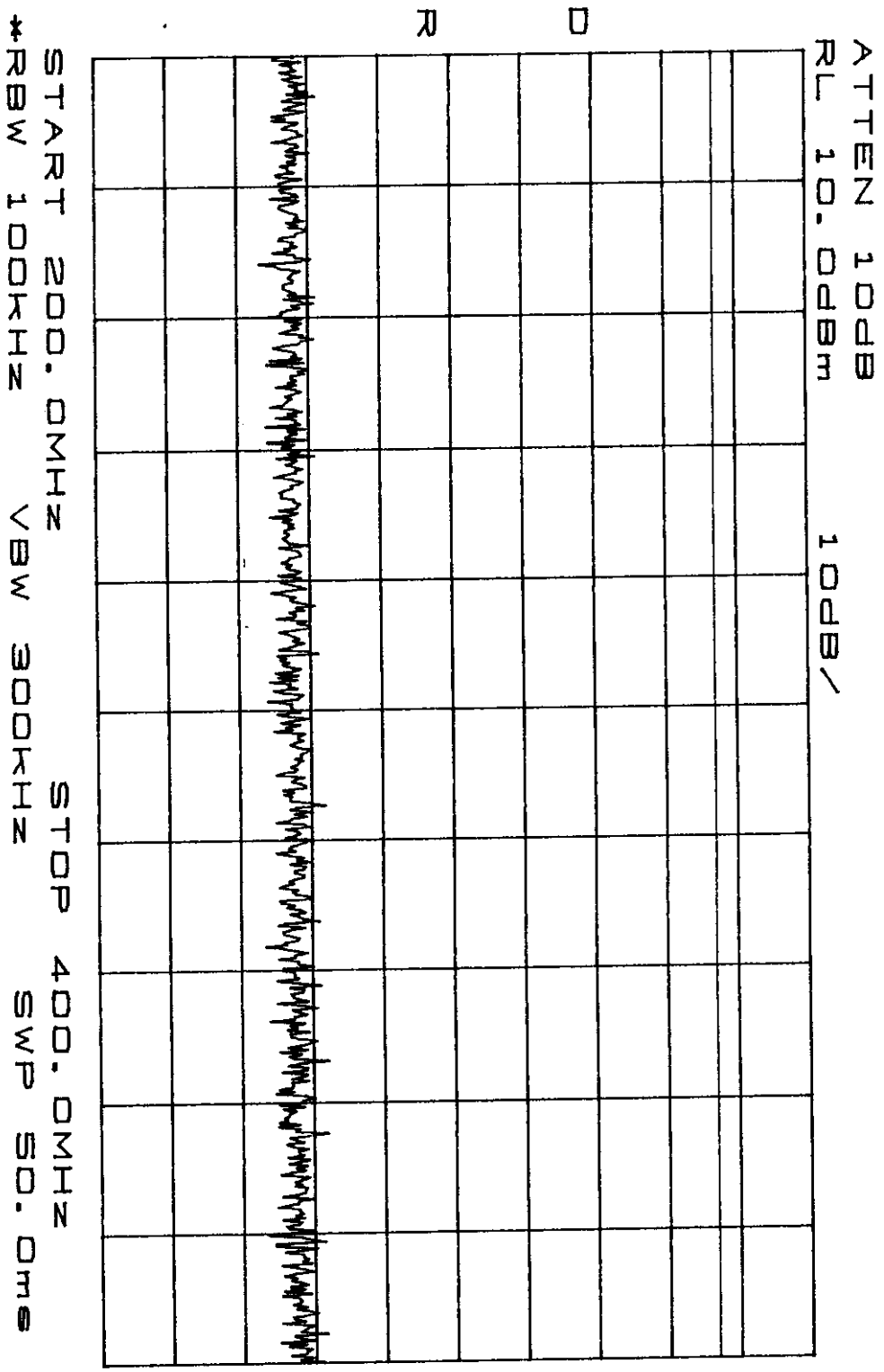
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



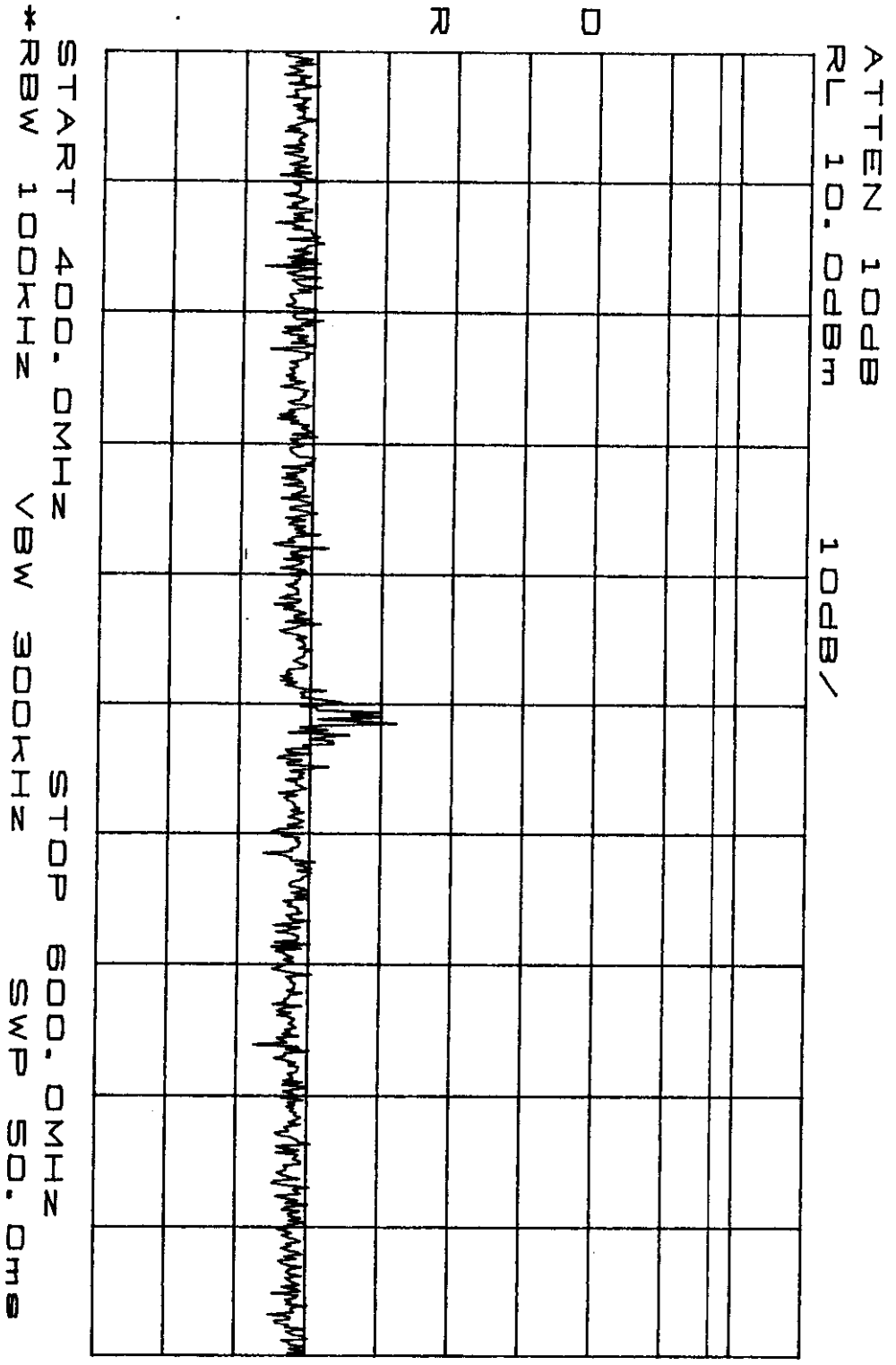
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



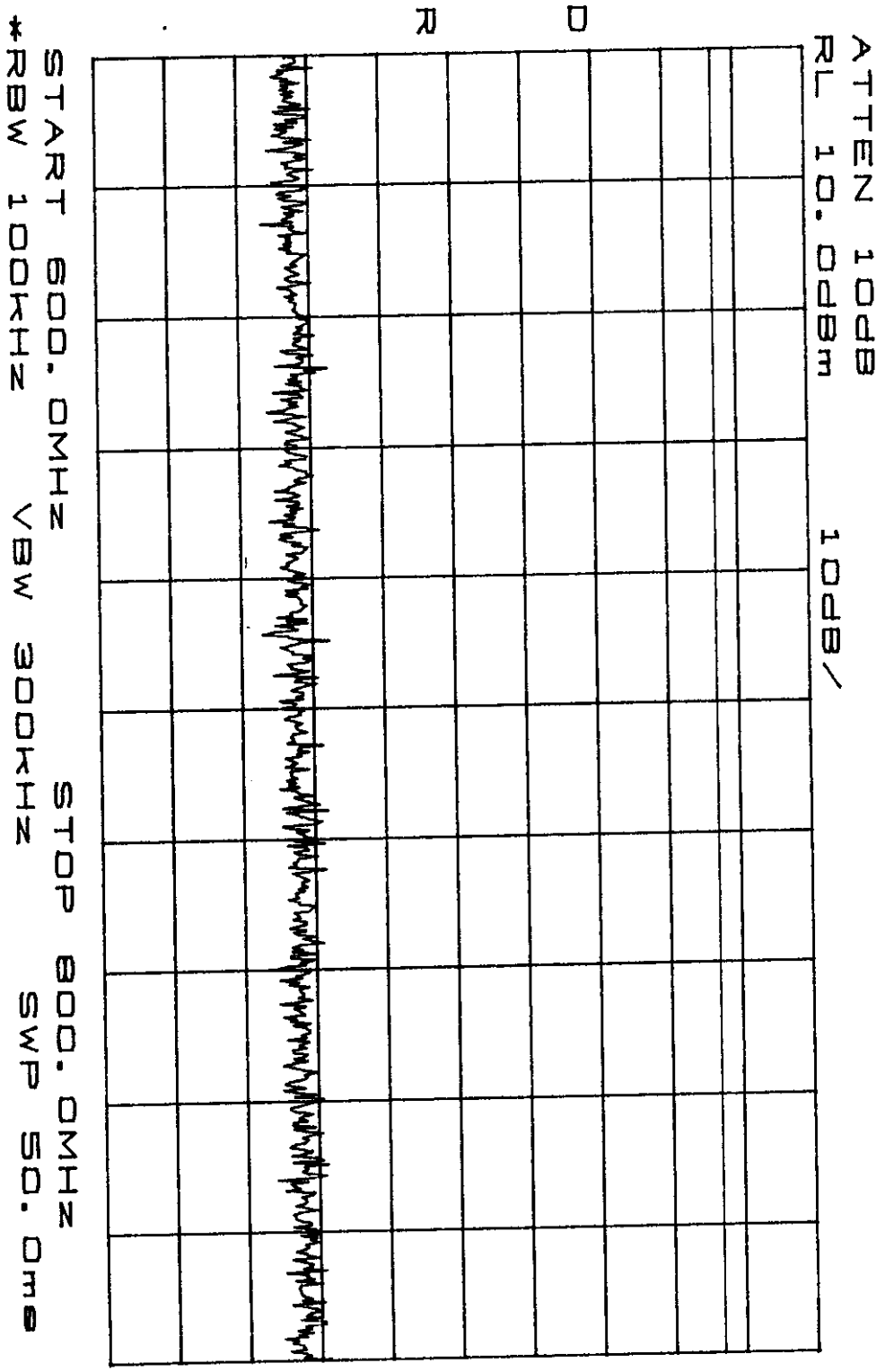
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



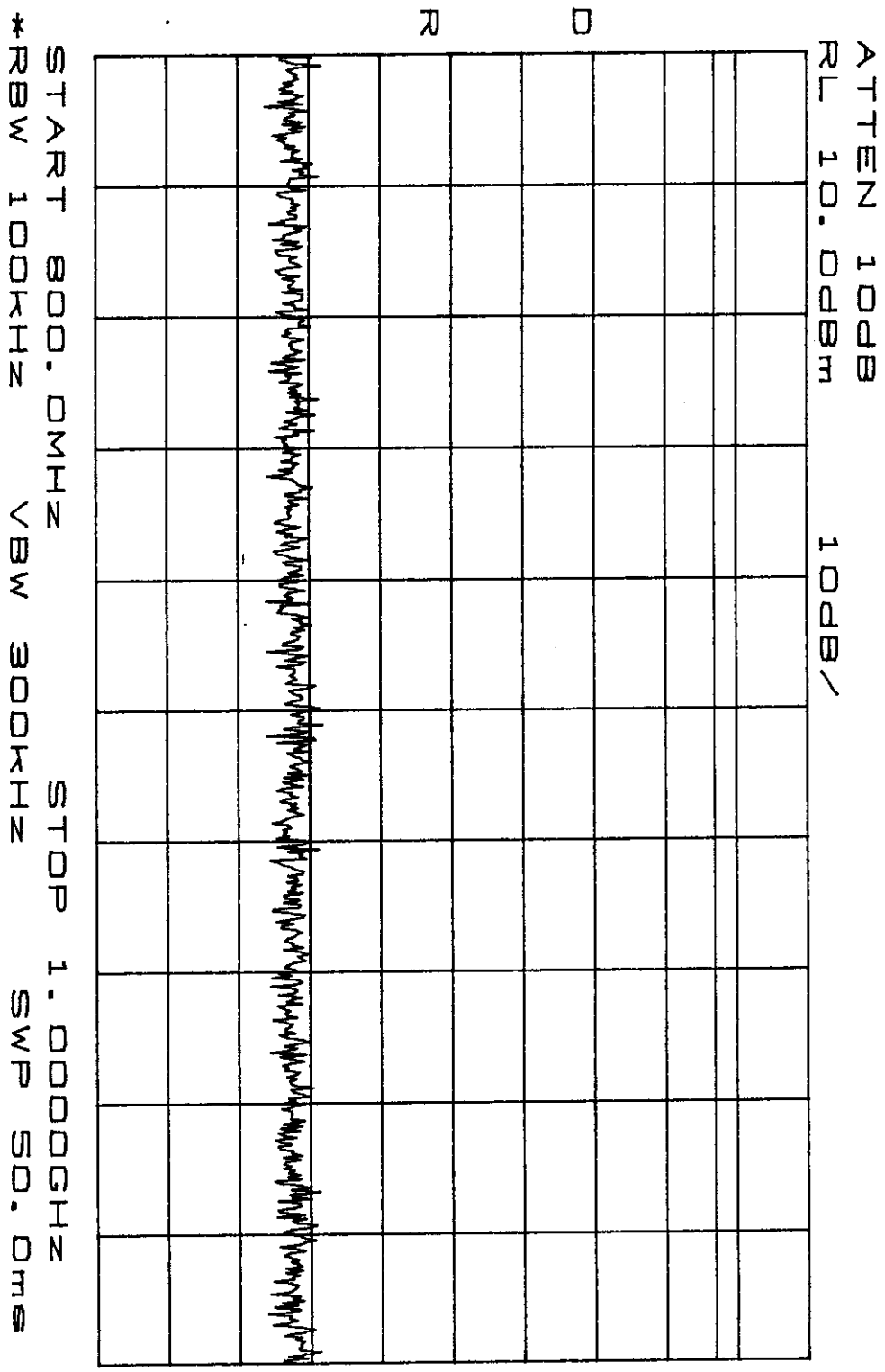
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



RETLIF TESTING LABORATORIES

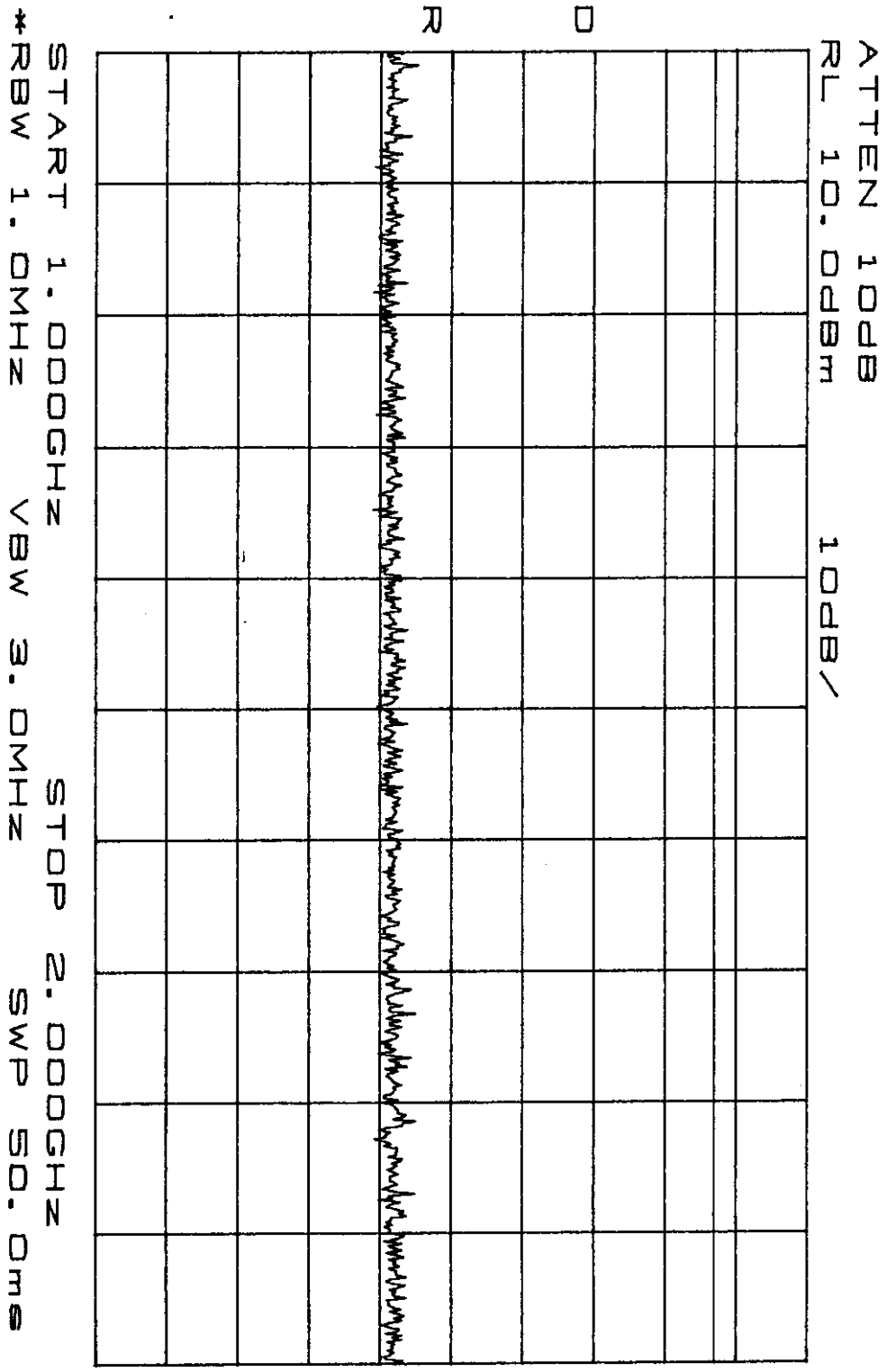
Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



RETLIF TESTING LABORATORIES

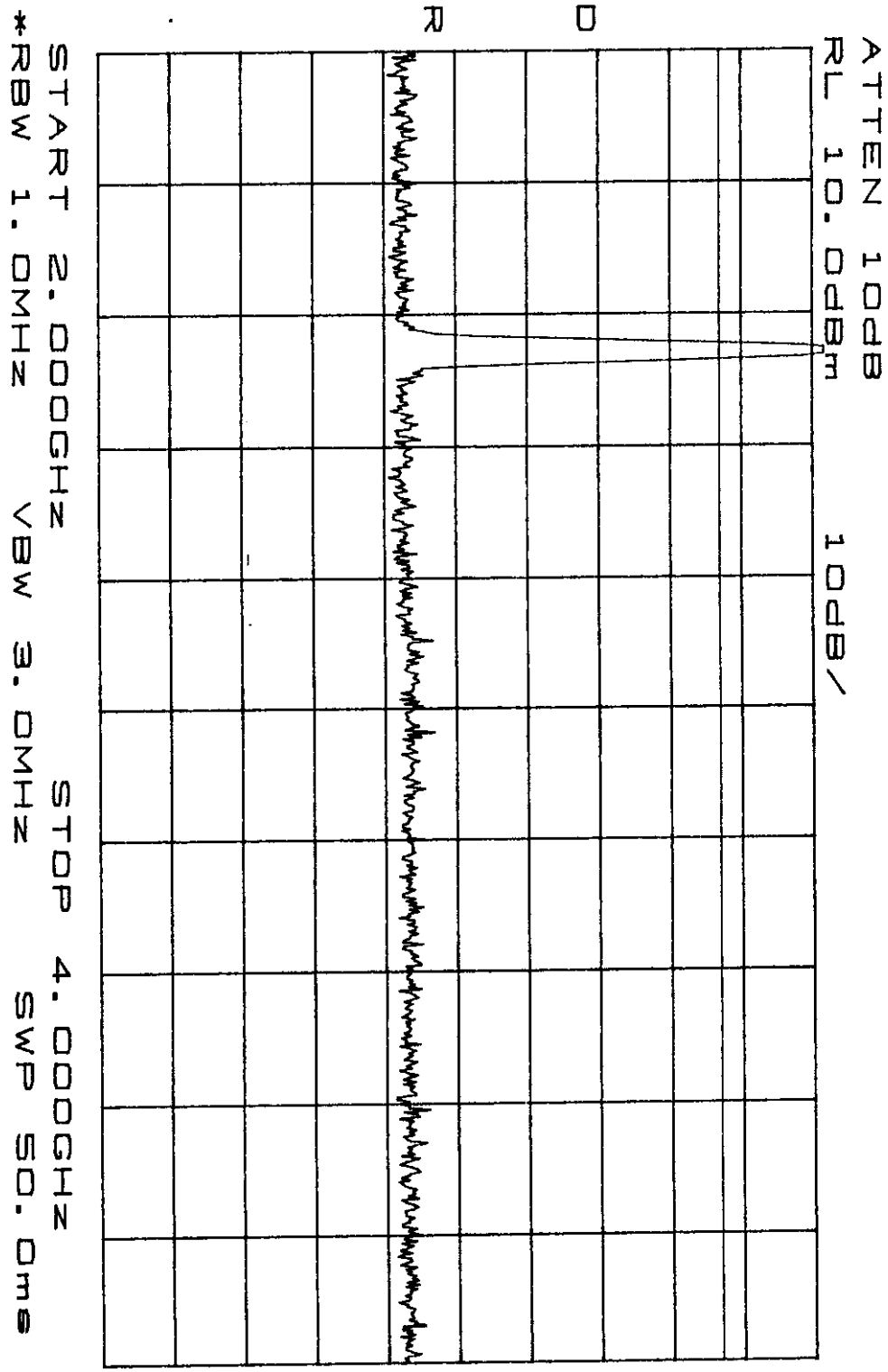
Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		

Sheet 32 of 36



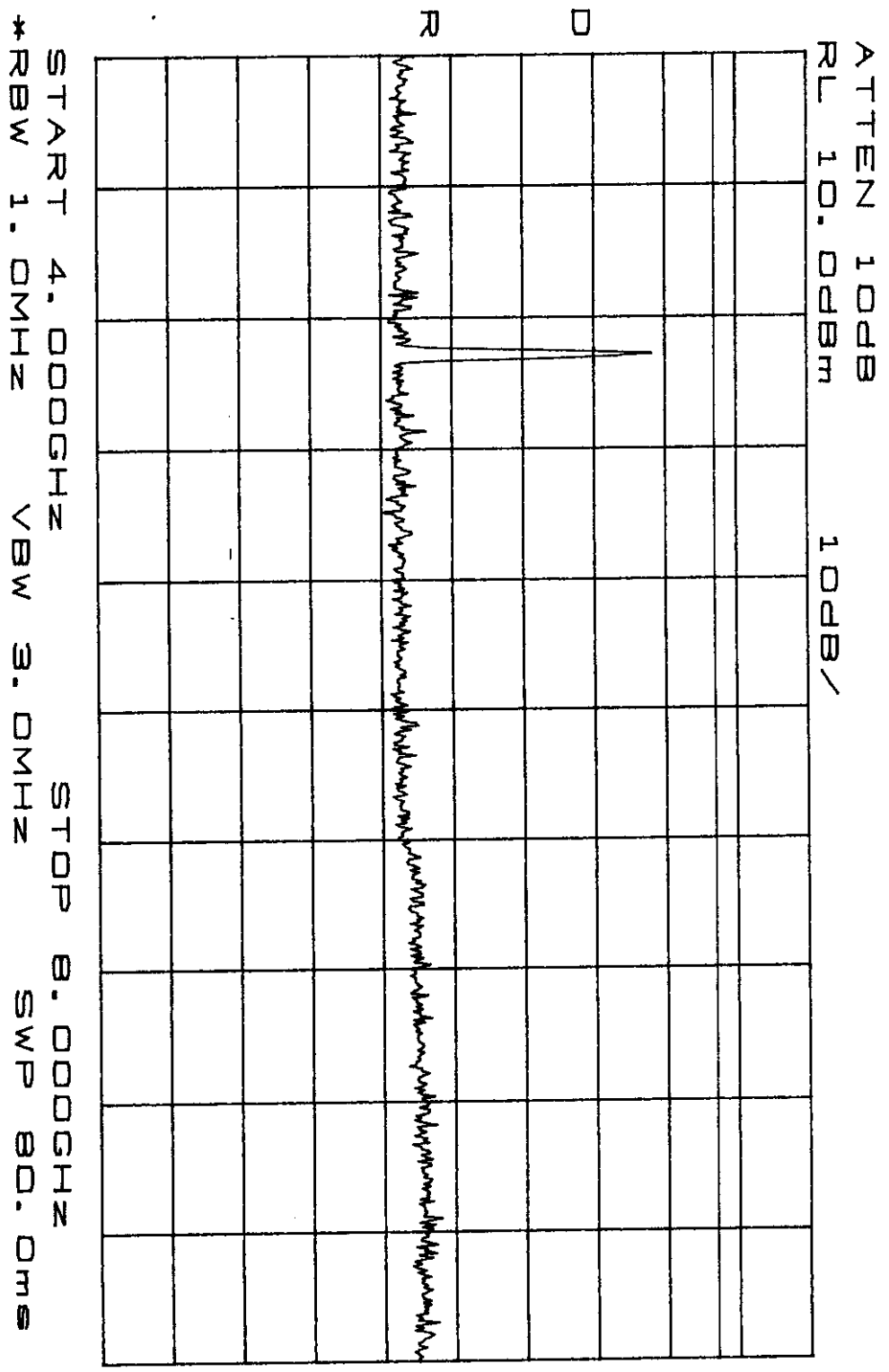
RETLIF TESTING LABORATORIES

Test Method	**Spurious Emissions at Antenna Terminals**		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



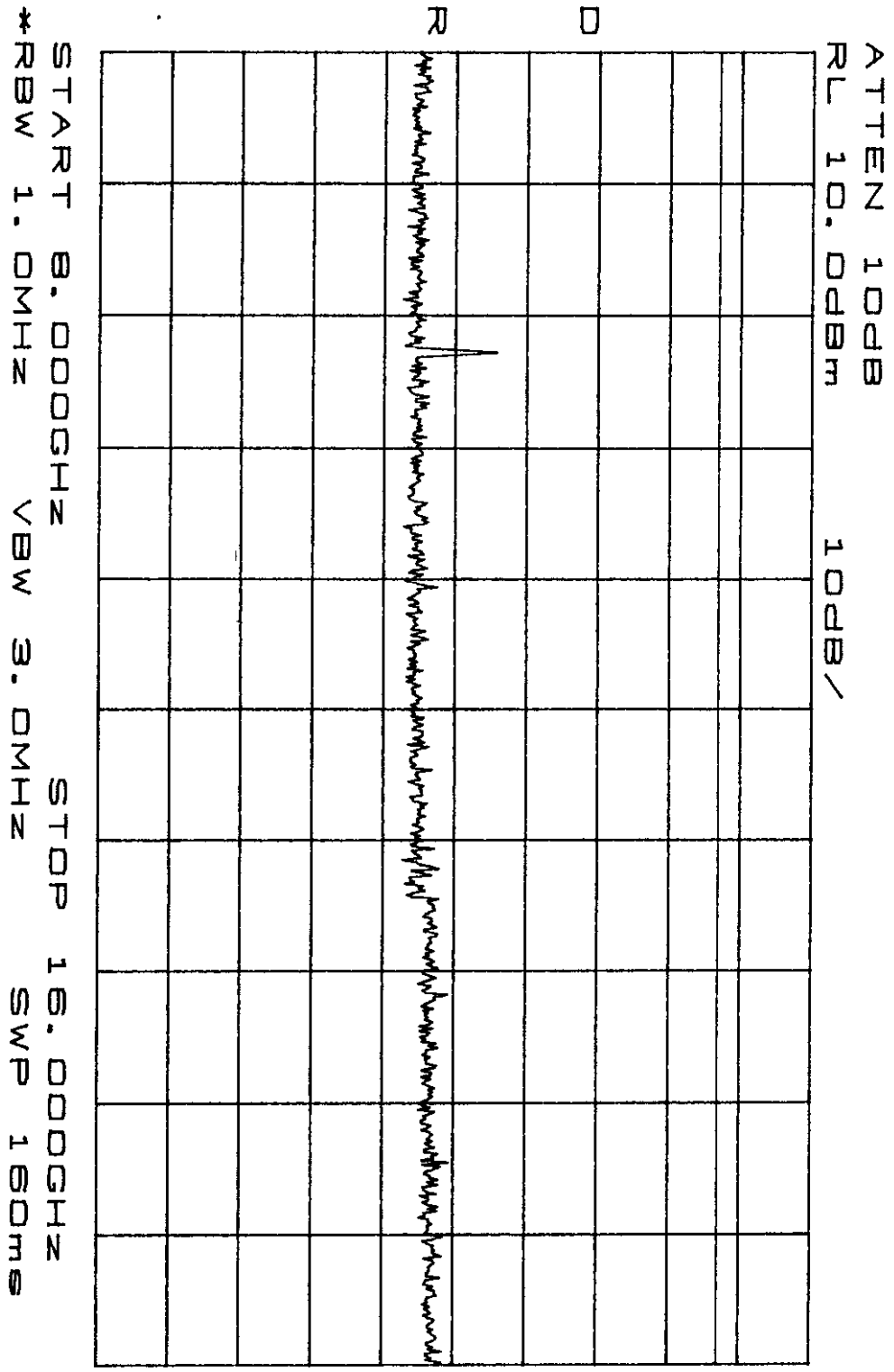
RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		



RETLIF TESTING LABORATORIES

Test Method	Spurious Emissions at Antenna Terminals		
Customer	DTC Communications, Inc.	Job No.	R-3318N
Test Sample	Microwave Transmitter		
Model No.	VTX-250	Serial No.	X-721
Test Specification	FCC Parts 2/90	Paragraph	2.991,2.997,90.210(b)
Operating Mode	Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals		
Technician	T. Cricco	Date	9/24/98
Notes	Fundamental Transmit Frequency = 2458.5 MHz		

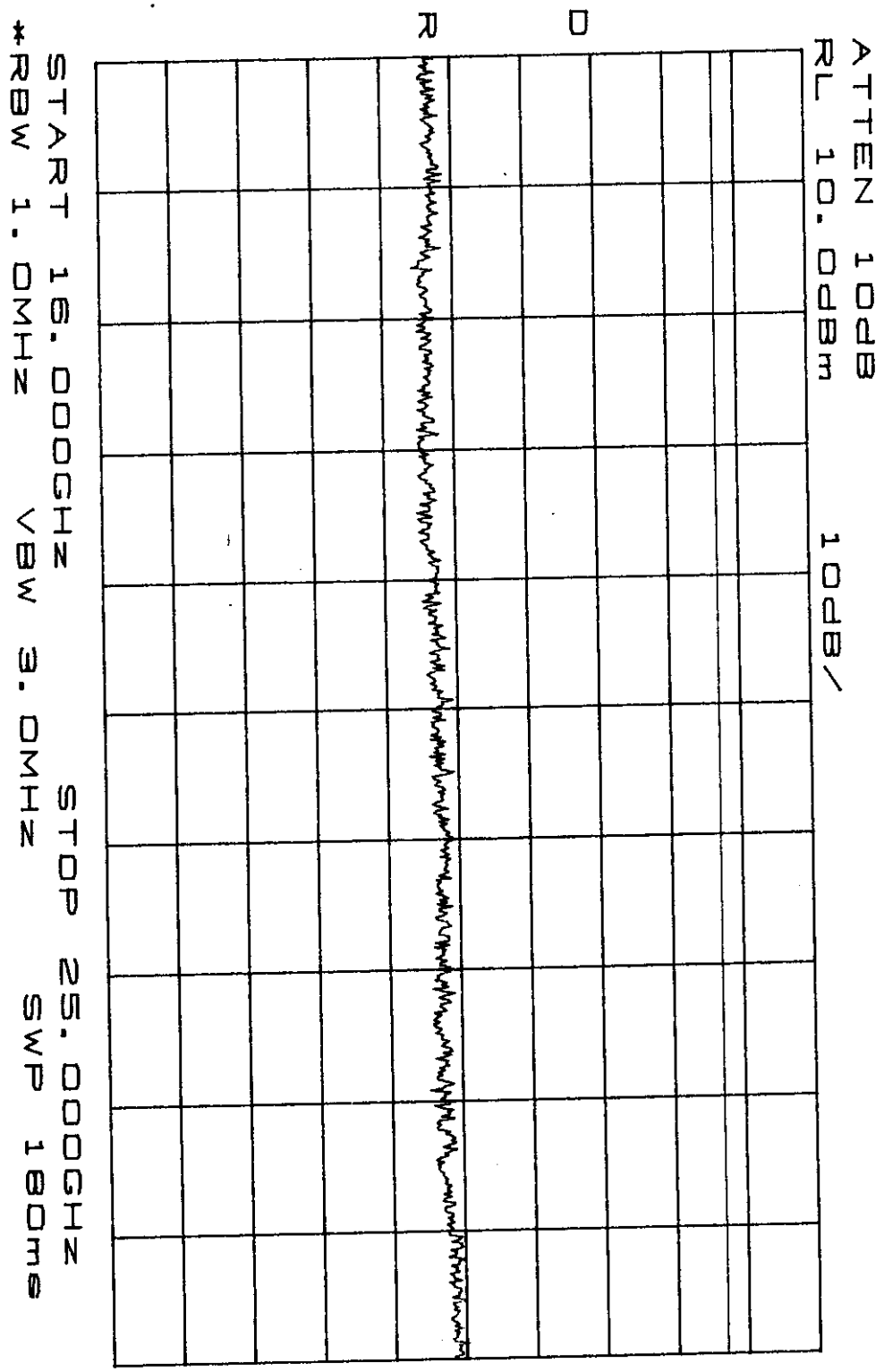


EXHIBIT H

Para. 2.993

Field Strength of Spurious Radiation

FIELD STRENGTH OF SPURIOUS RADIATION (PARA 2.993)

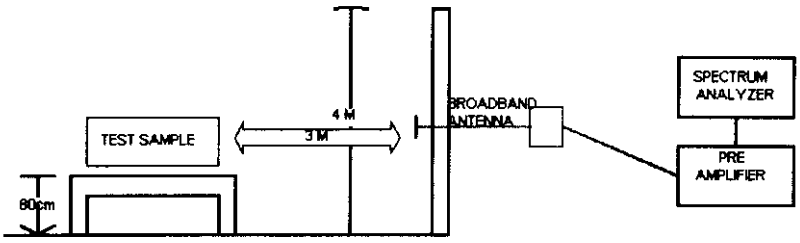
Measurement Procedure:

The test sample was operating with a fully charged battery, appropriate modulation and the antenna port terminated with an appropriate load. The test sample was placed on an 80cm high wooden test stand which was located three meters from the test antenna on an FCC listed test site. The frequency range scanned was from the lowest frequency generated by the test sample to the tenth harmonic of the highest fundamental frequency. In order to maximize the level of each emission observed from the test sample, the broadband antenna was tuned to the frequency of each emission and the test sample was rotated 360 degrees. To further maximize the each emission observed, the test antenna was both horizontally and vertically polarized, and then was raised and lowered from one to four meters from the ground plane. The limit for all of the spurious emissions was calculated utilizing the measured output power and the following equation:

Limit $\langle dB\mu V/M \rangle = 20 \log [\{(49.2 \times P_T)^{1/4}/3\} \times 10^6] - (43 + 10 \log P_T)$

The above procedure was performed at the lower, middle and upper frequencies of the device's range.

GENERAL TEST SETUP



RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD: **Radiated Emissions, 6 MHz to 25 GHz**

CUSTOMER: DTC Communications, Inc. JOB No.: R-3318N

TEST SAMPLE: Microwave Transmitter

MODEL No.: VTX-250 SERIAL No.: X-721

TEST SPECIFICATION: FCC Parts 2/90 PARAGRAPH: 2.991, 2.993, 2.997, 90.210 (b)

OPERATING MODE: Continuously Transmitting 75% Color Bars, and 1000Hz, 1V p-p Audio Signals

TECHNICIAN: T. Cricco DATE: 9/23/98

NOTES: Test Distance: 3 Meters. EUT was operated at three frequencies: 2458.5, 2475.5, and 2492.0 MHz with antenna terminated.

TEST FREQUENCY	ANTENNA POSITION	TURNTABLE POSITION	METER READING	CORRECTION FACTOR	CORRECTED READING			LIMIT @ 3 METERS
MHz	(H/V) - HEIGHT	DEGREES	dBuV	dB	dBuV/m			dBuV/m
6.0	-	-	-	-	-			84.0
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
2458.5	V 1M	180	38.0	28.0	66.0			|
2458.5	H 1M	45	36.0	28.0	64.0			|
2475.5	V 1M	225	38.0	28.0	66.0			|
2475.5	H 1M	45	38.0	28.0	66.0			|
2492.0	V 1M	150	40.0	28.0	68.0			|
2492.0	H 1M	45	39.0	28.0	67.0			|
4916.0	H 1M	180	32.0	33.5	65.5			|
4950.0	H 1M	180	31.0	33.5	64.5			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
|	-	-	-	-	-			|
25000	-	-	-	-	-			84.0

The frequency range was scanned from 6 MHz to 25 GHz. All emissions not recorded were more than 20dB below the specified limit. Emissions observed from the EUT do not exceed the specified limit.

EXHIBIT H

Para. 2.995

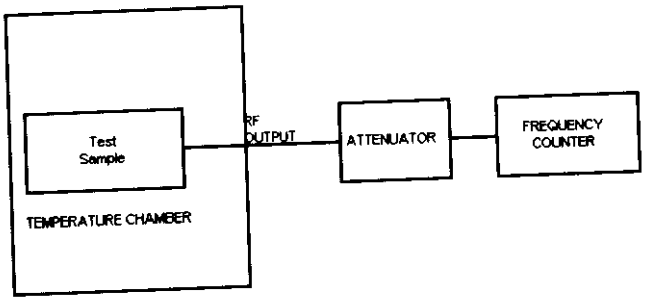
Frequency Stability

FREQUENCY STABILITY MEASUREMENTS (PARA 2.995)

Measurement Procedure (Frequency vs. Temperature)

The RF output of the test sample was coupled to a frequency counter through external attenuators. With the counter connected, the test sample was activated and placed into a temperature chamber. The temperature was then programmed to start at -30 degrees Celsius and reach +50 degrees Celsius in 10 degrees increments. Each increment was held for 30 minutes in order to let the test sample stabilize at that temperature.

GENERAL TEST SETUP

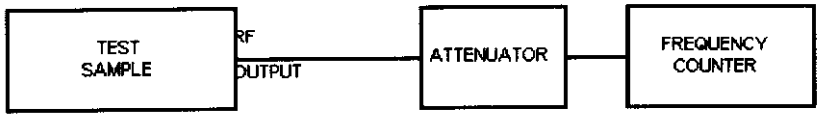


FREQUENCY STABILITY MEASUREMENTS (PARA 2.995)

Measurement Procedure (Frequency vs. Voltage):

The RF output of the test sample was coupled to a frequency counter through external attenuation. Using a Variable power supply and voltmeter, the input voltage was varied as specified.

GENERAL TEST SETUP



Subject: Frequency Stability

FCC Part 90
Microwave Video Transmitter

Model: VTX250

Equip: Systron Donner 6420
Microwave Counter
Associated Systems BK1101
Temperature Chamber
OK Electronics PS732
DC Power Supply

Technical Specification: 2.995
Frequency tolerance of carrier signal: +/- .005% for a temperature variation from -30°C to +50°C at normal supply voltage, and for a variation in primary voltage from 85% to 100% of the rated supply voltage at +20°C.

CARRIER FREQUENCY TOLERANCE LIMIT

TOLERANCE	FREQUENCY CHANNEL A (MHZ)	FREQUENCY CHANNEL B (MHZ)	FREQUENCY CHANNEL C (MHZ)
+0.005%	2458.5349	2475.5557	2492.0594
0%	2458.4120	2475.4321	2491.9349
-0.005%	2458.2891	2475.3083	2491.8104

CARRIER FREQUENCY DEVIATIONS DUE TO POWER SUPPLY INSTABILITY

% DEVIATION FROM NOMINAL VOLTAGE	SUPPLY VOLTAGE	CARRIER FREQUENCY CHANNEL A (MHZ)	CARRIER FREQUENCY CHANNELB (MHZ)	CARRIER FREQUENCY CHANNEL C (MHZ)
85%	10.2	2458.4111	2475.4288	2491.9319
100%	12	2458.4120	2475.4321	2491.9349
115%	13.15	2458.4115	2475.4292	2491.9321

CARRIER FREQUENCY DEVIATIONS DUE TO TEMPERATURE INSTABILITY

TEMPERATURE (°C)	CARRIER FREQUENCY CHANNEL A (MHZ)	CARRIER FREQUENCY CHANNEL B (MHZ)	CARRIER FREQUENCY CHANNEL C (MHZ)
-30	2458.4300	2475.4786	2491.9633
-20	2458.4295	2475.4720	2491.9603
-10	2458.4271	2475.4671	2491.9560
0	2458.4172	2475.4493	2491.9485
+10	2458.4150	2475.4472	2491.9321
+20	2458.4125	2475.4328	2491.9303
+30	2458.4121	2475.4184	2491.9290
+40	2458.4112	2475.4100	2491.9268
+50	2458.4097	2475.4085	2491.9234

M. Murphy
DTC Communications, Inc.
September 25, 1998

9/25/98