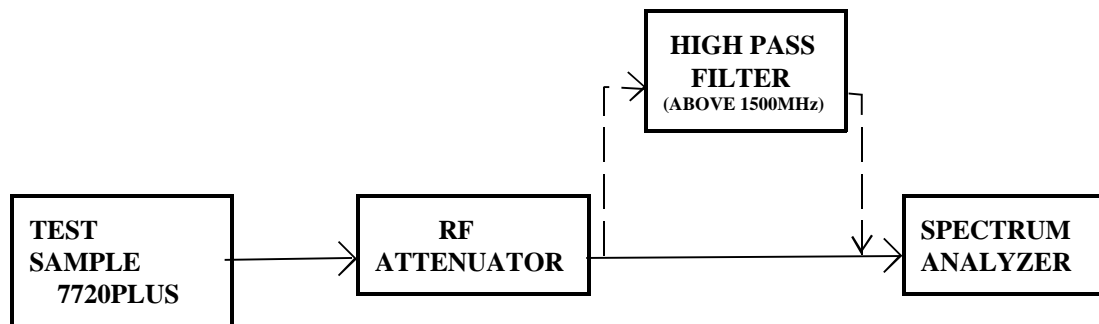


## Spurious Emissions at the Antenna Terminal (§2.1051)

### Measurement Procedure:

The RF output of the test sample was coupled to a spectrum analyzer through a 20dB attenuator. The test sample was then modulated as stated in the Occupied Bandwidth test. The frequency range was scanned from the lowest frequency generated by the test sample to the tenth harmonic of the fundamental. Plots were made of the spectrum analyzer displays. The limits for the spurious emission are calculated utilizing the measured Peak RF Envelope Power and the limits stated in §101.111(a)(6). Above 1500MHz, High Pass Filters were placed between the 20dB attenuator and the spectrum analyzer to ensure the measured responses were true and not due to the spectrum analyzer and the fundamental frequency. The spectrum analyzer was triggered by the 7720PLUS's V4 to ensure that the analyzer was sweeping during transmission. Due to analyzer Resolution Bandwidth /Sweep Time limitations and the 7720PLUS's RF transmission cycle timing, Page #2 is composed of two averaged plots of 100 transmissions each. All others plots are Peak Hold detected.

The test setup was as shown below.



### Test Results:

The results for the above test are shown on the following sheets.

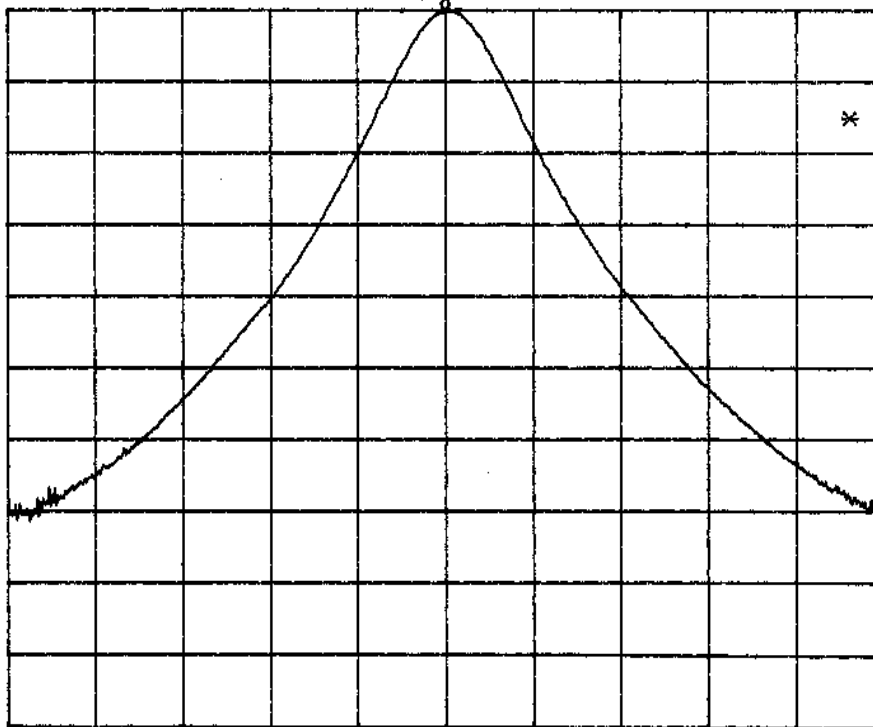


ALARM DEVICE MANUFACTURING COMPANY  
160 Eileen Way  
Syosset, NY 11791

TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (\$2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	OCTOBER 28, 1999

7720PLUS 28OCT99 ADEMCO DETECTOR: PEAK HOLD PEAK POWER RF ENVELOPE  
FOR REFERENCE LEVEL  
36.9dBm = 0dBc

ATTEN 30dB MKR 36.90dBm  
RL 36.9dBm 10dB/ 928.238MHz



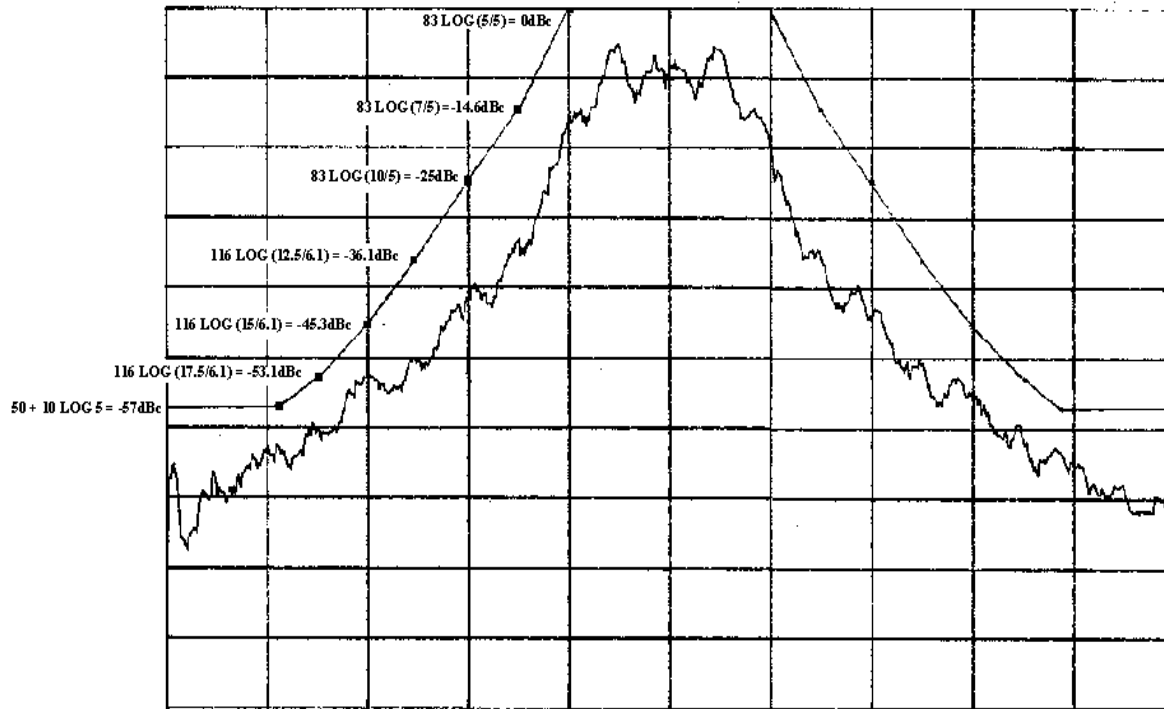
CENTER 928.238MHz SPAN 5.000MHz  
\*RBW 300kHz VBW 300kHz SWP 50.0ms



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES AND REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	POWER ON, TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	OCTOBER 28, 1999

7720PLUS 28 OCT 99 ADEMCO DETECTOR: AVERAGED DIGITAL MASK +/- 25kHz  
ATTEN 30dB VAVG 100 LIMIT FOR 5W= -57dBc  
RL 35.9dBm 10dB/ @ +/- 18.9kHz



CENTER 928.23740MHz SPAN 50.00kHz  
\*RBW 1.0kHz VBW 1.0kHz SWP 200ms

SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMITS.



ALARM DEVICE MANUFACTURING COMPANY  
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TEST METHOD: **SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)**

TEST SAMPLE: **INTEGRATED RADIO TRANSMITTER**

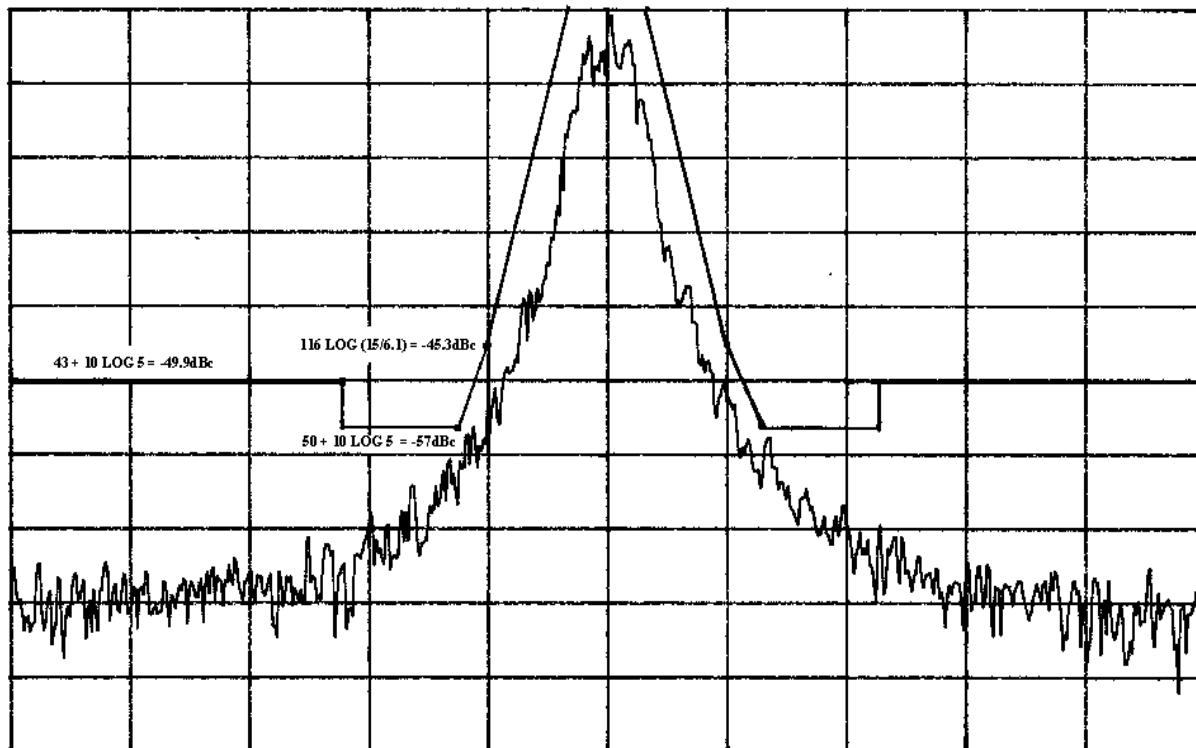
MODEL No: **7720PLUS** SERIAL No: **NA**

TEST SPECS: **FCC RULES & REGULATIONS, §101.111(a)(6)**

OPERATING MODE: **TRANSMITTING**

TESTED BY: **T.MOTT** DATE: **OCTOBER 28,1999**

7720PLUS 28 OCT 99 ADEMCO DETECTOR: PEAK HOLD DIGITAL MASK +/- 75kHz  
ATTEN 30dB LIMIT =  $43 + 10 \text{ LOG } 5 = -49.9\text{dBc}$   
RL 36.9dBm @ 250% BAND WIDTH = +/- 33.5kHz  
10dB/



CENTER 928.2374MHZ SPAN 150.0KHZ  
\*RBW 1.0KHZ VBW 1.0KHZ SWP 380ms

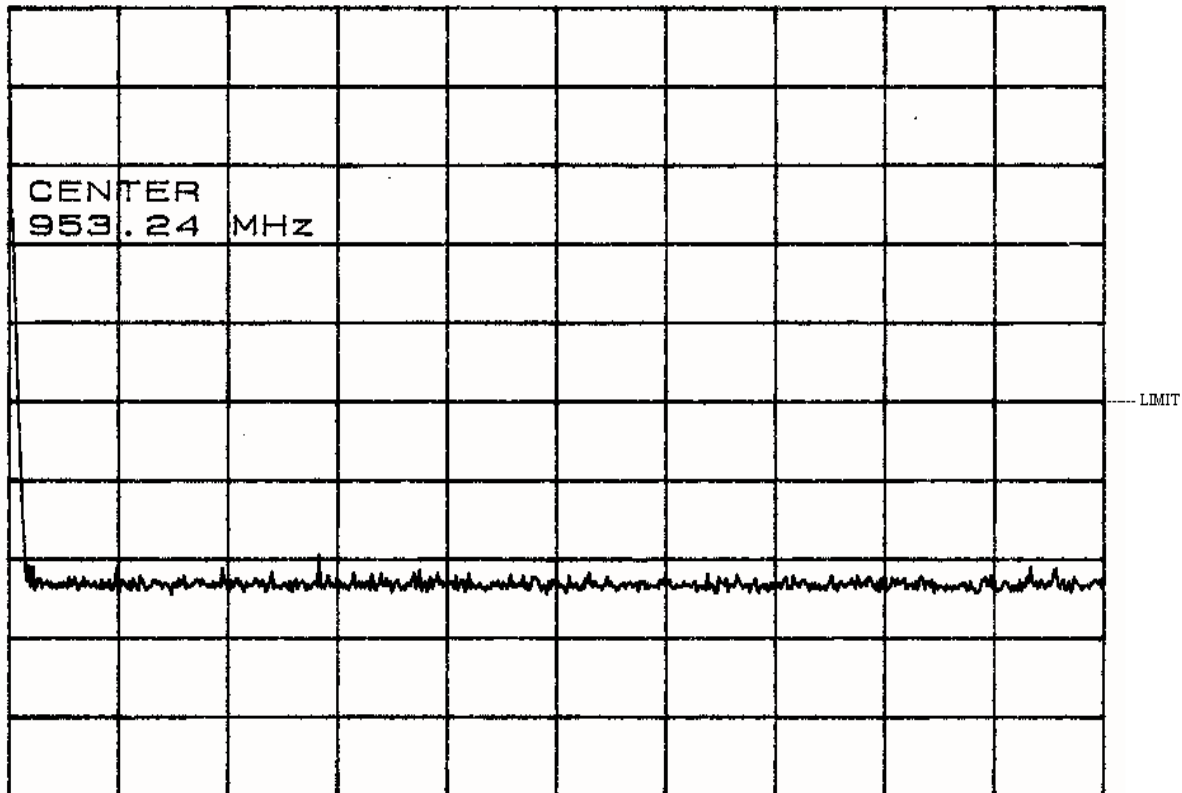
SPURIOUS EMISSIONS AT THE TEST SAMPLE ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL ( §2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC PART 101.111 (6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T.MOTT	DATE:	OCTOBER 28, 1999

7720PLUS 1 NOV 99 ADEMCO DETECTOR: PEAK HOLD SPURIOUS RESPONSE AT THE  
ATTEN 30dB ANTENNA TERMINAL F0 + 50MHz  
RL 36.9dBm 10dB/ LIMIT =  $43 + 10 \log(5) = -49.9\text{dBc}$



CENTER 953.24MHz SPAN 50.00MHz  
\*RBW 100kHz VBW 100kHz SWP 50.0ms

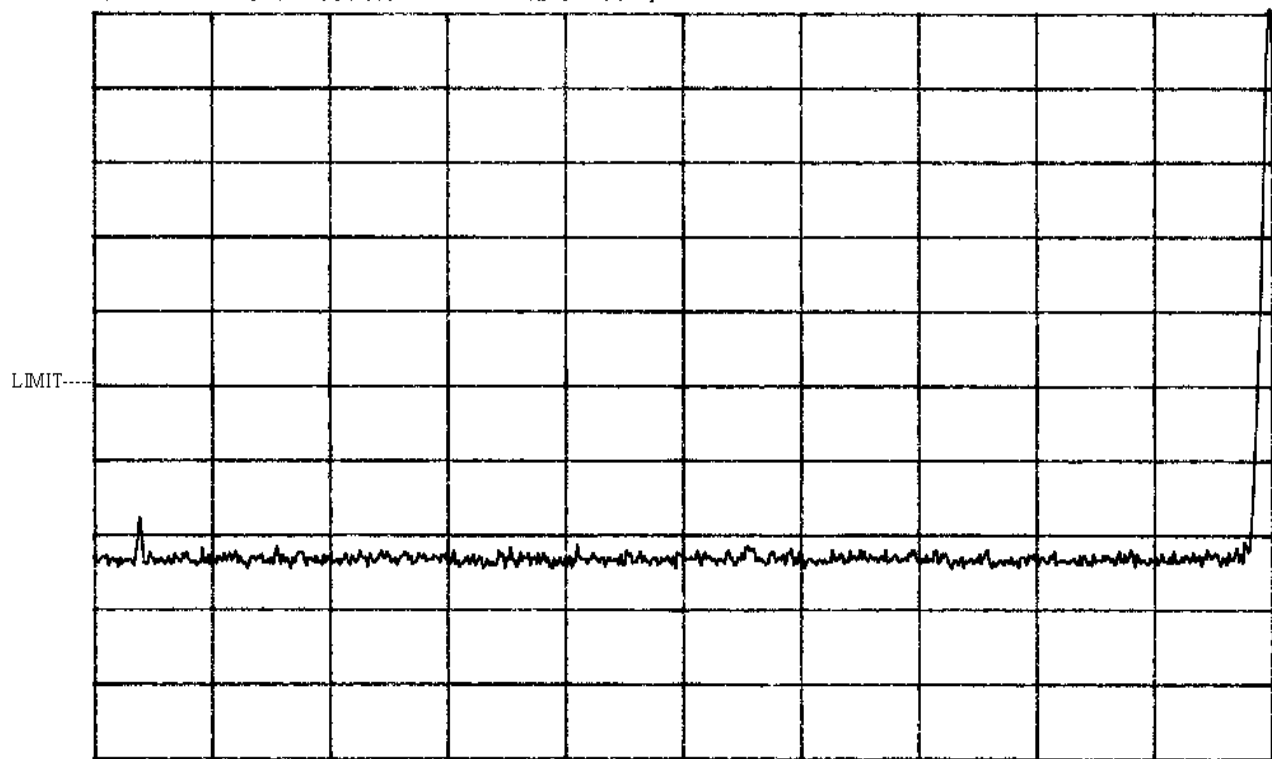
SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	OCTOBER 28, 1999

7720PLUS 28 OCT 99 ADEMCO DETECTOR: PEAK HOLD SPURIOUS RESPONSE AT THE  
ATTEN 30dB ANTENNA TERMINAL F0-50MHz  
AL 36.9dBm 10dB/ LIMIT = -49.9dBc



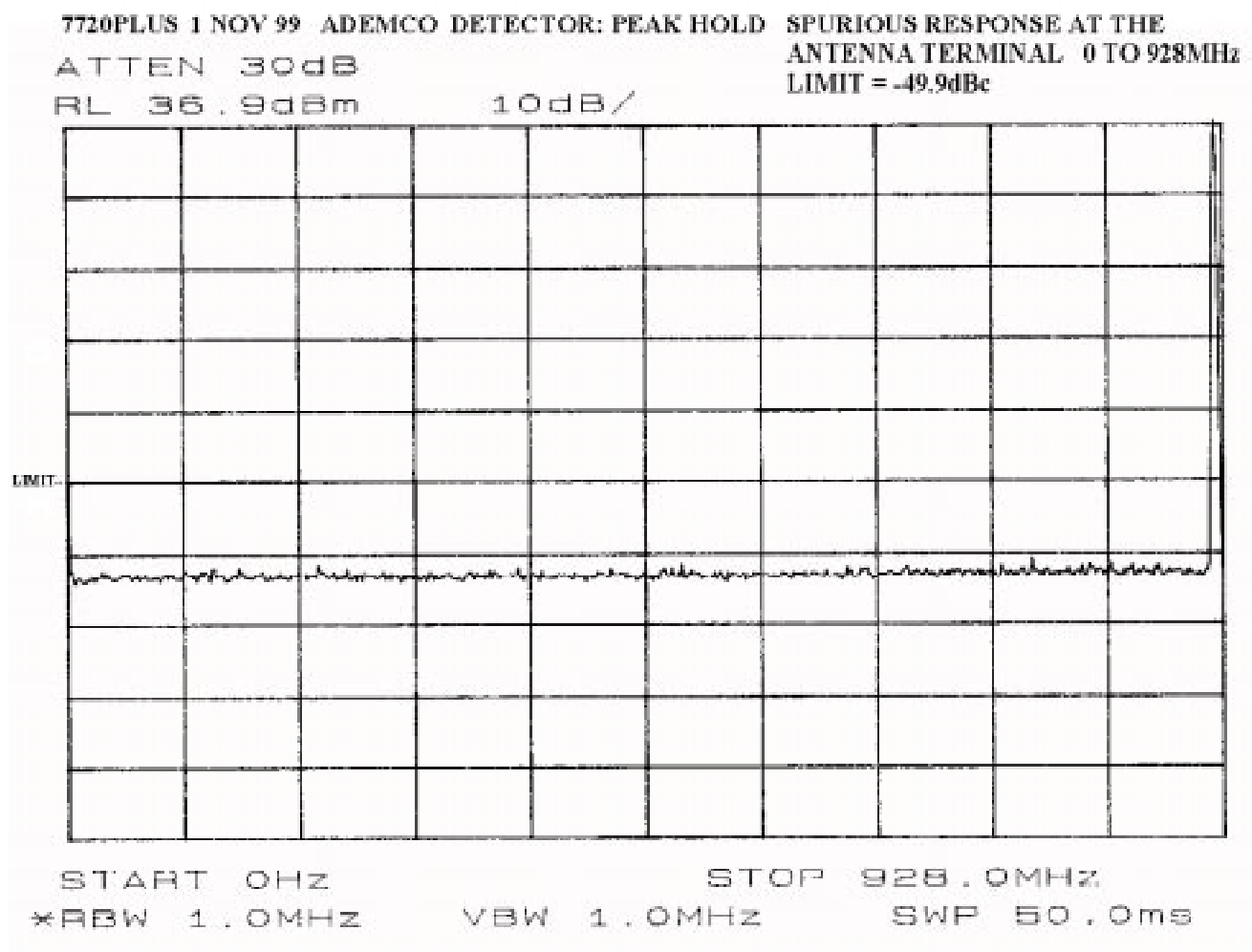
CENTER 903.24MHz SPAN 50.00MHz  
\*RBW 100kHz VBW 100kHz SWP 50.0ms

SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	NOVEMBER 1, 1999



SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



ALARM DEVICE MANUFACTURING COMPANY  
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TEST METHOD: **SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL**

TEST SAMPLE: **INTEGRATED RADIO TRANSMITTER**

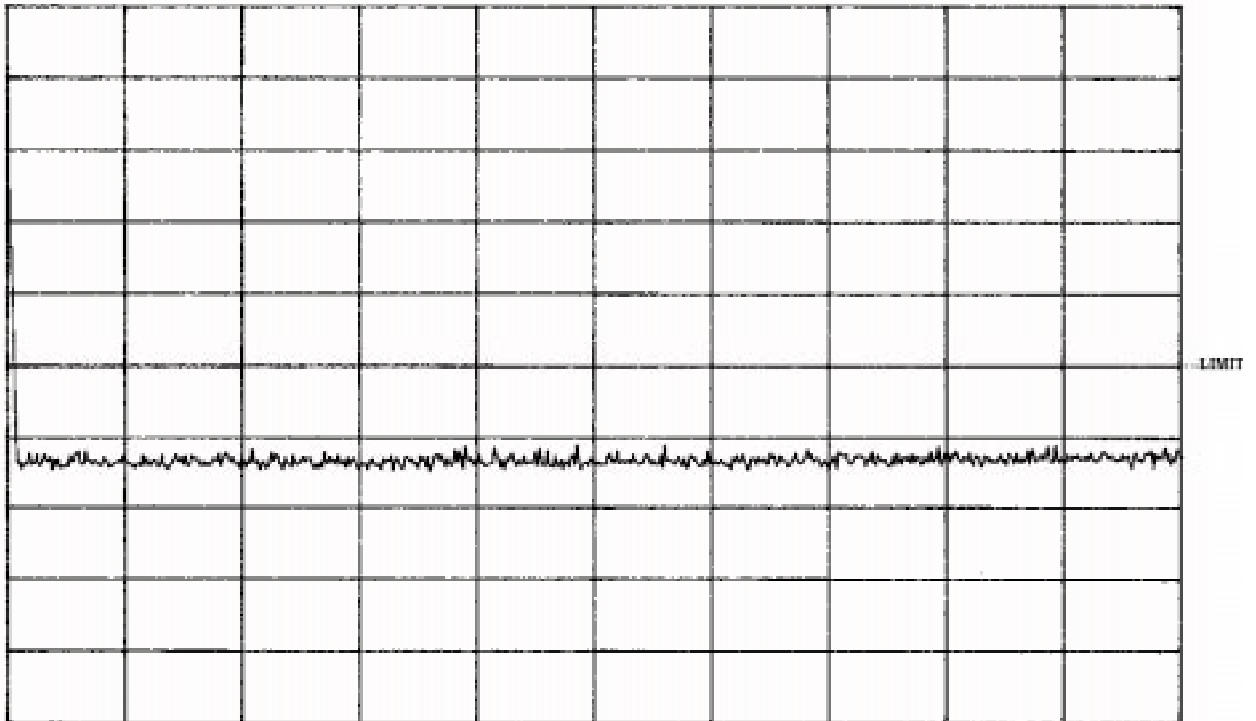
MODEL No: **7720PLUS** SERIAL No: **NA**

TEST SPECS: **FCC RULES & REGULATIONS, §101.111(a)(6)**

OPERATING MODE: **TRANSMITTING**

TESTED BY: **T. MOTT** DATE: **NOVEMBER 1, 1999**

7720PLUS 1NOV99 ADEMCO DETECTOR: PEAK HOLD SPURIOUS RESPONSE AT THE  
ATTEN 30dB ANTENNA TERMINAL 0.928 TO 1.5GHz  
RL 36.9dBm 10dB/ LIMIT = -49.9dBC



START 928.0MHz STOP 1.5000GHz  
\*RBW 1.0MHz VBW 1.0MHz SWP 50.0ms

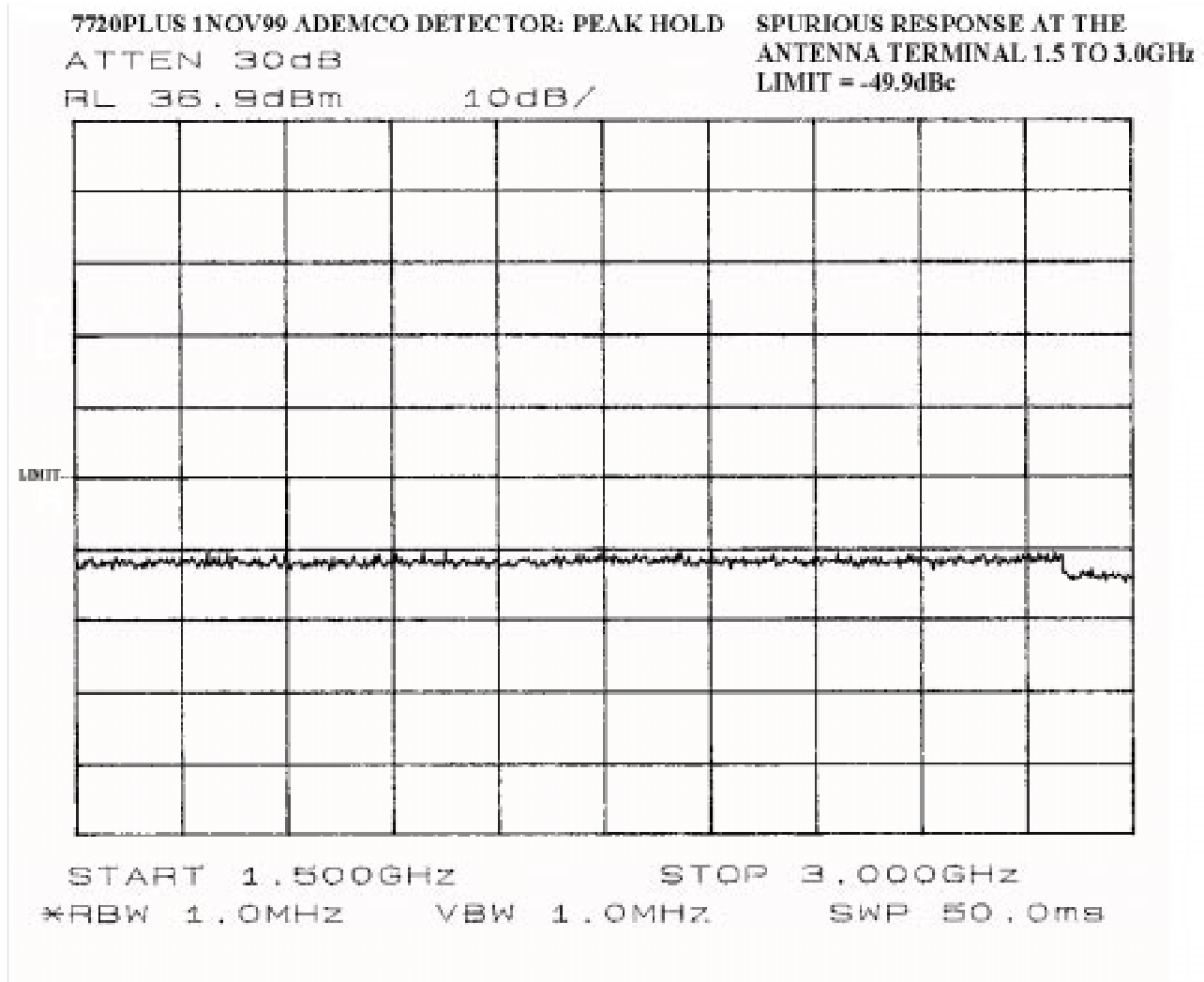
SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.





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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	NOVEMBER 1, 1999

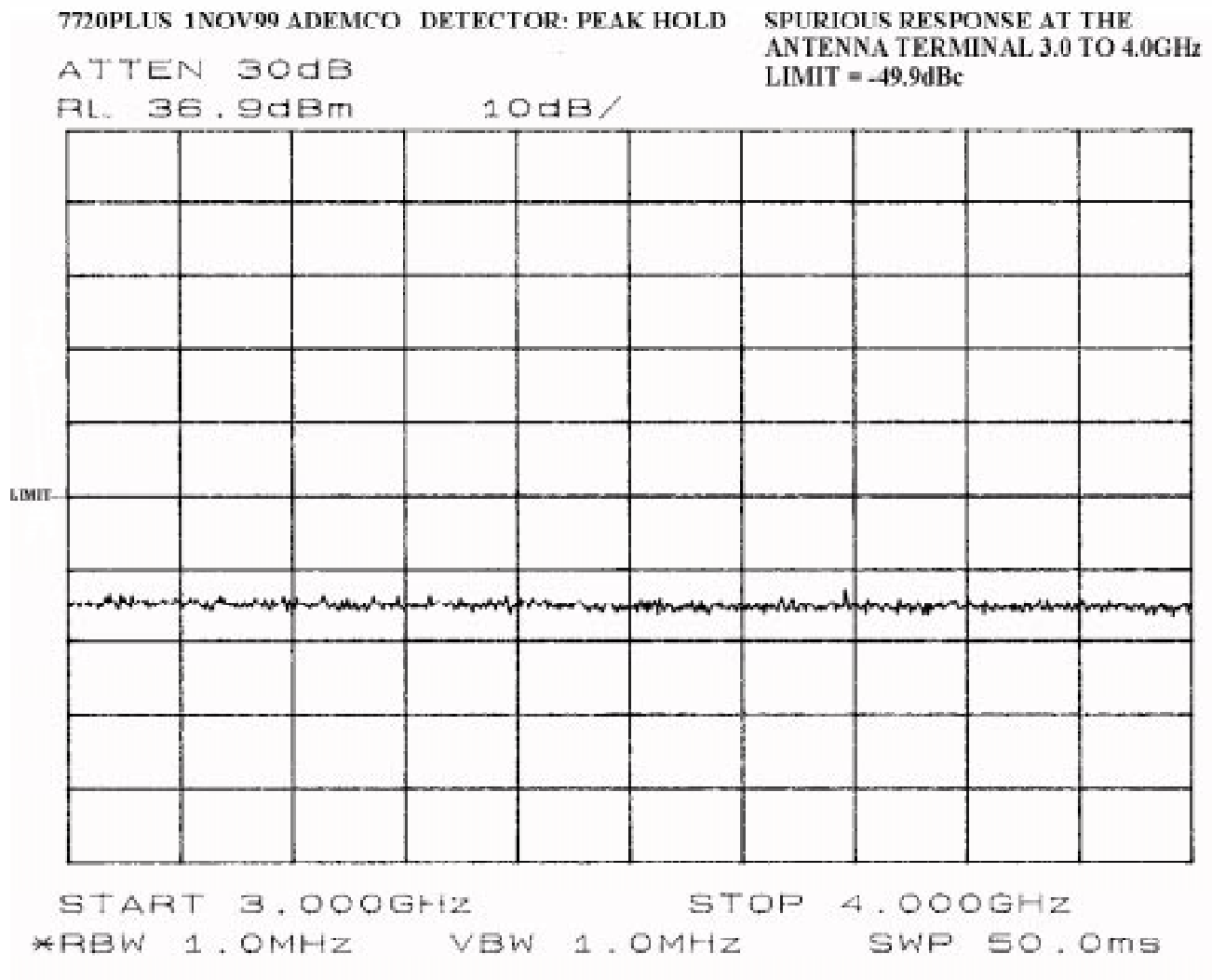


SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	NOVEMBER 1, 1999

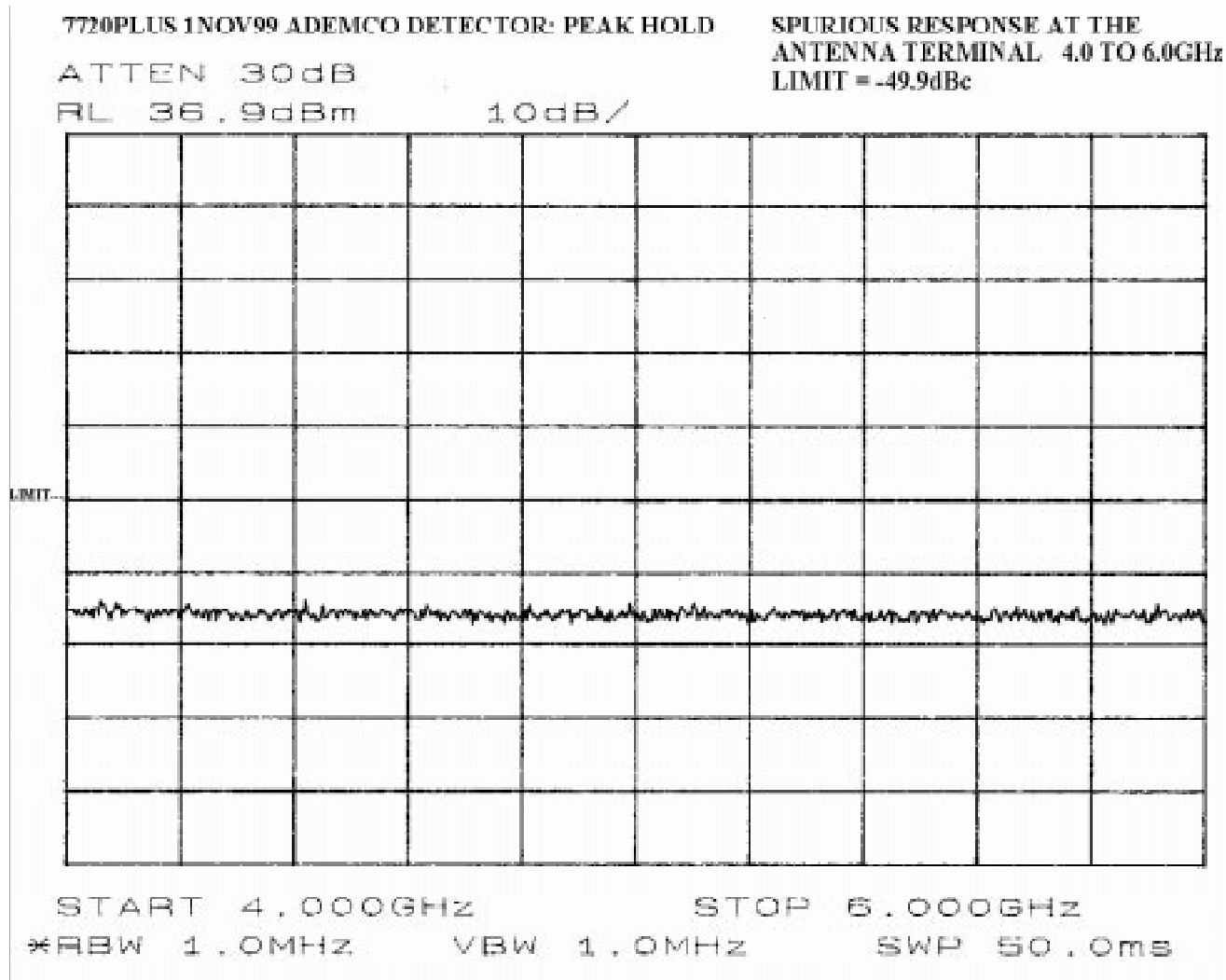


SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



ALARM DEVICE MANUFACTURING COMPANY  
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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (\$2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	NOVEMBER 1, 1999

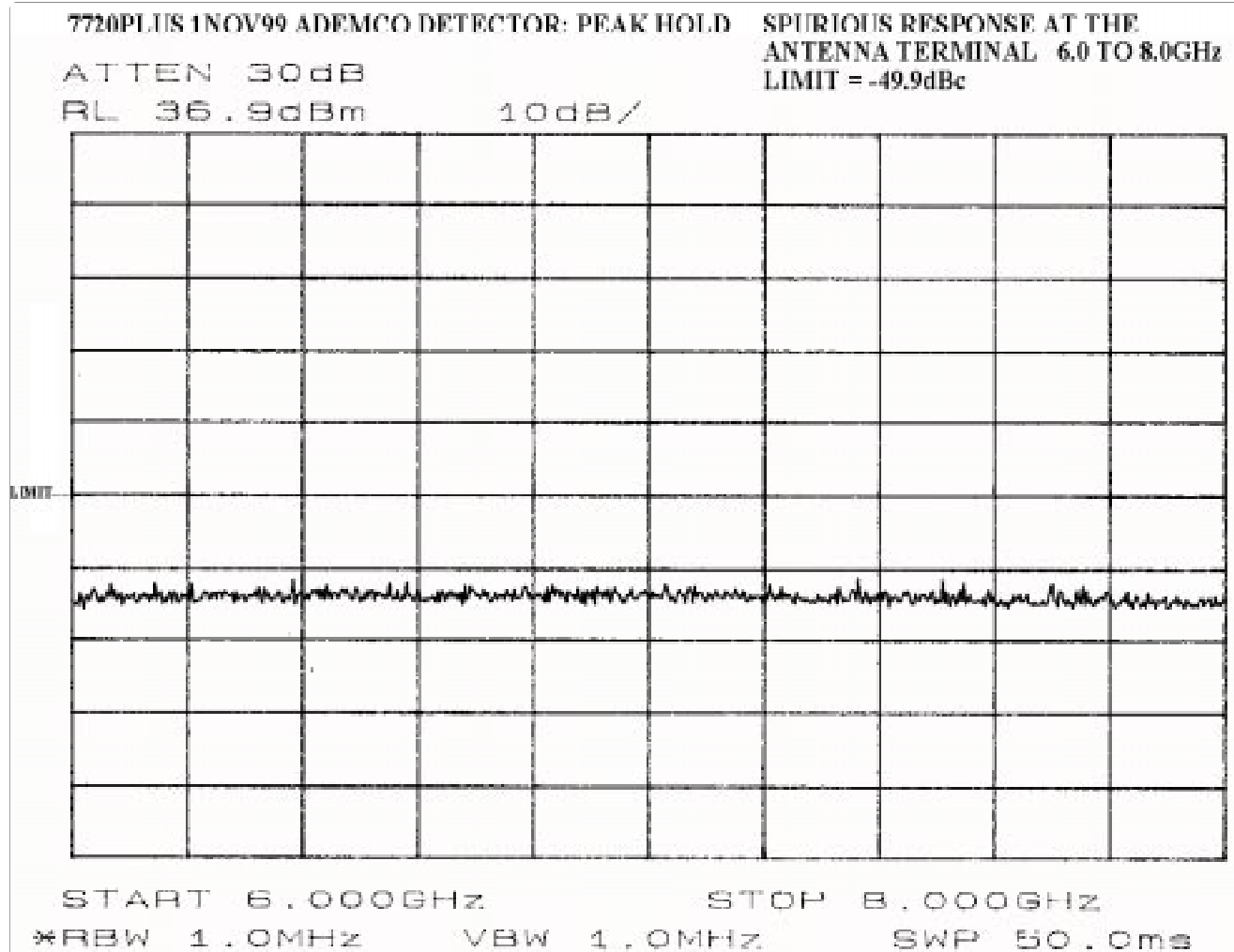


SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	NOVEMBER 1, 1999



SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.



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TEST METHOD:	SPURIOUS EMISSIONS AT THE ANTENNA TERMINAL (§2.1051)		
TEST SAMPLE:	INTEGRATED RADIO TRANSMITTER		
MODEL No:	7720PLUS	SERIAL No:	NA
TEST SPECS:	FCC RULES & REGULATIONS, §101.111(a)(6)		
OPERATING MODE:	TRANSMITTING		
TESTED BY:	T. MOTT	DATE:	NOVEMBER 1, 1999

7720PLUS 1NOV99 ADEMCO DETECTOR: PEAK HOLD SPURIOUS RESPONSE AT THE  
ANTENNA TERMINAL 8.0 TO 10.0GHz

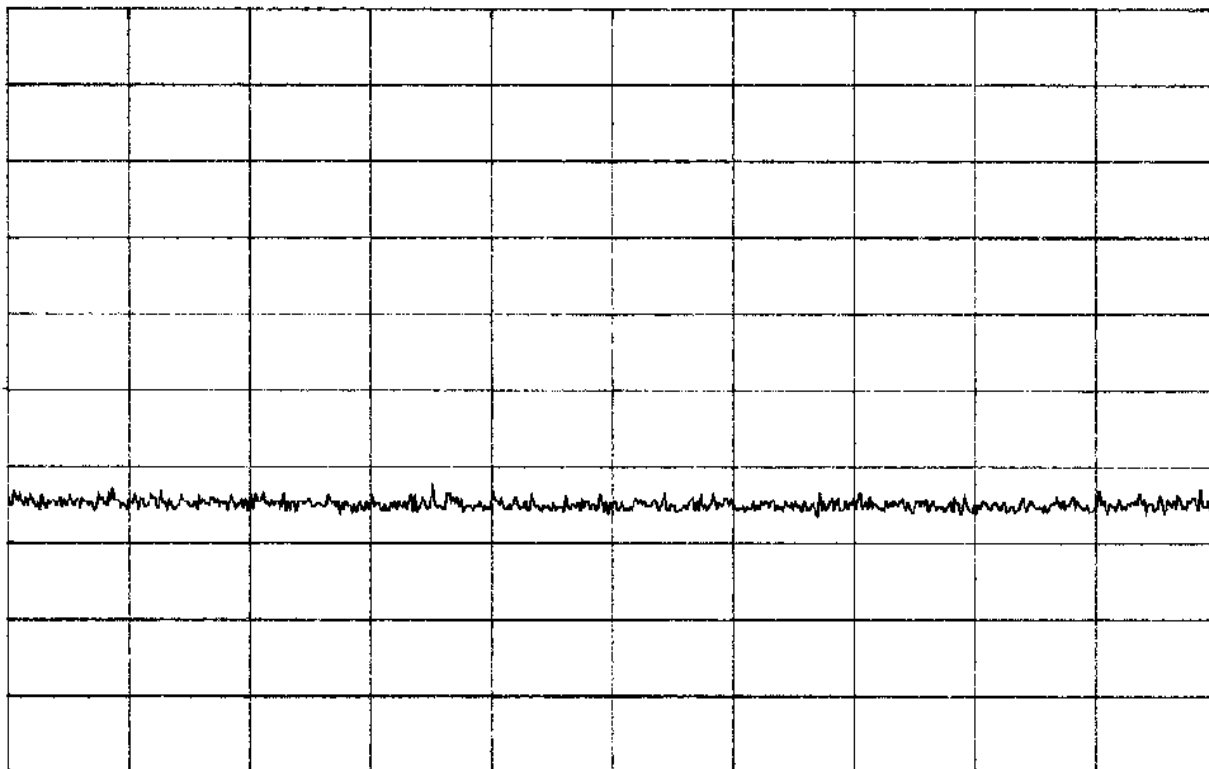
ATTEN 30dB

RL 36.9dBm

1.0dB/

LIMIT = -49.9dBc

LIMIT



START 8.0000GHz

STOP 10.0000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 50.0ms

SPURIOUS EMISSIONS AT THE TEST SAMPLES ANTENNA TERMINAL DO NOT EXCEED THE SPECIFIED LIMIT.