

EXHIBIT 6

Report of Measurements

Para. 2.1033(b)(6)



Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

APPLICANT

X-10 (USA), Inc.
91 Ruckman Road
Closter, NJ 07624-0420

MANUFACTURER

X-10 Electronics Shenzhen Co. Ltd.
X-10 Building
Labour Industrial District
Shenzhen, Xixiang, Bao An
Guang Dong, China, 518102

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.231

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: RCA MODEL: RCSAT1RF-A

TYPE: Pulsed Transmitter

POWER REQUIREMENTS: Four (4) 1.5 V "AAA" batteries

FREQUENCY OF OPERATION: 418 MHz

TESTS PERFORMED

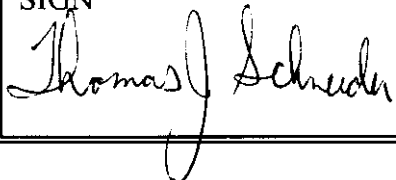
Para. 15.231(a), Radiated Emissions, Fundamental and Harmonics

Para. 15.231(c), Occupied Bandwidth

Duty Cycle Determination

I HEREBY CERTIFY THAT: The measurements shown here were in accordance with the procedure indicated and that the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER CERTIFY THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.

SIGN**PRINT**

Thomas J. Schneider

TITLE

EMC Test Engineer

**Retlif Testing Laboratories**

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

REPORT OF MEASUREMENTS

Applicant: X-10 (USA), Inc.
Device: 418 MHz Pulsed Transmitter
FCC ID: B4SRCSAT2
Power Requirements: Four (4) 1.5 V "AAA" batteries
Applicable Rule Section: Part 15, Subpart C, Section 15.231

TEST RESULTS

- 15.231 (a) - The device is used as a transmitter for security purposes.
- 15.231 (a)(1) - The transmitter is manually operated.
- 15.231 (a)(3) - The transmitter does not perform periodic transmissions.
- 15.231 (a)(4)- The device is employed for RC purposes involving security.
- 15.231 (b) - The fundamental field strength did not exceed $10,770 \mu\text{V/M}$ (Average) at a test distance of 3 meters. In addition, the requirements of section 15.35 for averaging pulsed emissions and for limiting peak emissions were met.
- The field strength of harmonic and spurious emissions did not exceed $1,077 \mu\text{V/M}$ (AVERAGE).
- 15.231 (c) - The device operates at 418 MHz. The bandwidth of emissions did not exceed 0.25% of the operating frequency (1.05 MHz).



Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

REPORT OF MEASUREMENTS (continued)

DETERMINATION OF FIELD STRENGTH LIMITS

The field strength limits shown below are found in Section 15.231.

	Frequency	Limit
F1 =	260	3750 = L1
Fo =	418	Lo
F2 =	470	12500 = L2

The formula below was utilized to determine the limits:

$$\text{Limit} = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]$$

Solving yields:

$$\text{Fundamental Limit} = 10,770 \mu\text{V/M (AVERAGE) @ 3 Meters}$$

$$\text{Harmonic Limit} = 1,077 \mu\text{V/M (AVERAGE) @ 3 Meters}$$

DETERMINATION OF DUTY CYCLE

The unit's RF output was directly coupled to the input of the spectrum analyzer. The analyzer was set for a frequency span of 0Hz. The sweep time was then adjusted in order to display one full pulse train. The transmitter on time was then summed and compared to the time for one full cycle in order to obtain the duty cycle.

Transmitter On Time	=	36.0 milliseconds (maximum)
Transmitter Cycle Time	=	62.3 milliseconds
Transmitter Duty Cycle	=	36.0 %

CALCULATION:

4.0 milliseconds x 2	=	8.0 milliseconds
40.0 milliseconds x 0.7	=	28.0 milliseconds
8.0 milliseconds + 28.0 milliseconds	=	36.0
Duty Cycle	=	36.0 %



Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

REPORT OF MEASUREMENTS (continued)

SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS

Due to the nature of the emissions being measured, care was taken to ensure that the resolution bandwidth of the spectrum analyzer was adequate to provide accurate measurements. The following formula was utilized:

Setting pulse desensitization equal to zero and utilizing the minimum observed pulse width of 700 microseconds yields a minimum required bandwidth of 952 Hz. FCC specified bandwidths of 100kHz and 1MHz were utilized below and above 1GHz, respectively.

GENERAL NOTES

1. All readings were taken utilizing a peak detector function at a test distance of 3 meters.
2. The duty cycle was applied to the peak readings in order to determine the average value of the emissions.
3. All measurements were made with four (4) 1.5V "AAA" Duracell batteries installed in the unit.
4. The frequency range was scanned from 30 MHz to 4.2 GHz . All emissions not reported were more than 20 dB below the specified limit.



Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

Exhibit 6

Report of Measurements

Radiated Emissions Data, Para. 15.231(a)



Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	X-10 (USA) Inc.	JOB No.:	R-7407-1
TEST SAMPLE:	Remote Control Transmitter FCC ID: B4SRCSAT2		
MODEL No.:	RCSAT1RF-A	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 418 Mhz Signal		
TECHNICIAN:	Dennis Cortes <i>DC</i>	DATE:	April 2, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak		

Test Frequency	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(H/V) / meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
418	H/1.0	X	78.6	-0.5	78.1	8035.3	107700
418	H/1.4	Y	87.8	-0.5	87.3	23173.9	107700
418	H/1.6	Z	72.6	-0.5	72.1	4027.2	107700
418	V/1.0	X	86.0	-0.5	85.5	18836.5	107700
418	V/1.3	Y	80.6	-0.5	80.1	10115.8	107700
418	V/1.3	Z	79.8	-0.5	79.3	9225.7	107700
836	H/1.1	X	48.3	6.5	54.8	549.5	10770
836	H/1.0	Y	42.7	6.5	49.2	288.4	10770
836	H/1.5	Z	42.1	6.5	48.6	269.2	10770
836	V/1.6	X	42.6	6.5	49.1	285.1	10770
836	V/1.5	Y	48.8	6.5	55.3	582.1	10770
836	V/1.8	Z	43.5	6.5	50.0	316.2	10770
1254	H/1.7	X	51.6	-5.5	46.1	201.8	10770
1254	H/1.0	Y	49.1	-5.5	43.6	151.4	10770
1254	H/1.5	Z	51.2	-5.5	45.7	192.8	10770
1254	V/1.6	X	49.6	-5.5	44.1	160.3	10770
1254	V/1.8	Y	51.4	-5.5	45.9	197.2	10770
1254	V/1.4	Z	47.4	-5.5	41.9	124.5	10770
1672	H/1.6	X	48.9	-3.7	45.2	182.0	5000
1672	H/1.0	Y	*41.1	-3.7	37.4	74.1	5000
1672	H/1.4	Z	47.4	-3.7	43.7	153.1	5000
1672	V/1.0	X	*41.1	-3.7	37.4	74.1	5000
1672	V/1.4	Y	48.2	-3.7	44.5	167.9	5000
1672	V/1.0	Z	*41.1	-3.7	37.4	74.1	5000
2090	H/1.2	X	55.2	-1.4	53.8	489.8	10770
2090	H/1.1	Y	51.9	-1.4	50.5	335.0	10770
2090	H/1.2	Z	52.3	-1.4	50.9	350.8	10770
2090	V/1.2	X	53.2	-1.4	51.8	389.0	10770
2090	V/1.3	Y	53.9	-1.4	52.5	421.7	10770
2090	V/1.3	Z	51.5	-1.4	50.1	319.9	10770
The frequency range was scanned from 30 MHz to 4.2 GHz. All emissions not recorded were more than 10dB below the specified limit.							
Emissions from the EUT do not exceed the specified limits.							
*=Noise Floor Measurement							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	X-10 (USA) Inc.	JOB No.:	R-7407-1
TEST SAMPLE:	Remote Control Transmitter FCC ID: B4SRCSAT2		
MODEL No.:	RCSAT1RF-A	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 418 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	April 2, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak		

Test Frequency	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(H/V) / meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2508	H/1.1	X	46.1	0.2	46.3	206.5	10770
2508	H/1.0	Y	*41.0	0.2	41.2	114.8	10770
2508	H/1.1	Z	44.8	0.2	45.0	177.8	10770
2508	V/1.0	X	*41.0	0.2	41.2	114.8	10770
2508	V/1.4	Y	45.6	0.2	45.8	195.0	10770
2508	V/1.0	Z	*41.0	0.2	41.2	114.8	10770
2926	H/1.0	X	*40.7	2.4	43.1	142.9	10770
2926	H/1.0	Y	*40.7	2.4	43.1	142.9	10770
2926	H/1.0	Z	*40.7	2.4	43.1	142.9	10770
2926	V/1.0	X	*40.7	2.4	43.1	142.9	10770
2926	V/1.0	Y	*40.7	2.4	43.1	142.9	10770
2926	V/1.0	Z	*40.7	2.4	43.1	142.9	10770
3344	H/1.0	X	*41.1	5.1	46.2	204.2	10770
3344	H/1.0	Y	*41.1	5.1	46.2	204.2	10770
3344	H/1.0	Z	*41.1	5.1	46.2	204.2	10770
3344	V/1.0	X	*41.1	5.1	46.2	204.2	10770
3344	V/1.0	Y	*41.1	5.1	46.2	204.2	10770
3344	V/1.0	Z	*41.1	5.1	46.2	204.2	10770
3762	H/1.0	X	*41.3	7.4	48.7	272.3	5000
3762	H/1.0	Y	*41.3	7.4	48.7	272.3	5000
3762	H/1.0	Z	*41.3	7.4	48.7	272.3	5000
3762	V/1.0	X	*41.3	7.4	48.7	272.3	5000
3762	V/1.0	Y	*41.3	7.4	48.7	272.3	5000
3762	V/1.0	Z	*41.3	7.4	48.7	272.3	5000
4180	H/1.0	X	*40.6	11.4	52.0	398.1	5000
4180	H/1.0	Y	*40.6	11.4	52.0	398.1	5000
4180	H/1.0	Z	*40.6	11.4	52.0	398.1	5000
4180	V/1.0	X	*40.6	11.4	52.0	398.1	5000
4180	V/1.0	Y	*40.6	11.4	52.0	398.1	5000
4180	V/1.0	Z	*40.6	11.4	52.0	398.1	5000
The frequency range was scanned from 30 MHz to 4.2 GHz. All emissions not recorded were more than 10dB below the specified limit.							
Emissions from the EUT do not exceed the specified limits.							
*=Noise Floor Measurement							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	X-10 (USA) Inc.	JOB No.:	R-7407-1
TEST SAMPLE:	Remote Control Transmitter FCC ID: B4SRCSAT2		
MODEL No.:	RCSAT1RF-A	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 418 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	April 2, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak Worst Case Duty Cycle: 36.0% (-8.9 dB Duty Cycle Correction Factor)		

Test Frequency	Antenna Pol./Height	EUT Orientation	Peak Corrected Reading	Duty Cycle Corr. Factor	Corrected Average	Converted Average	Average Limit
MHz	(H/V) / meters	X / Y / Z	dBuV/m	dB	dBuV/m	uV/m	uV/m
418	H/1.0	X	78.1	-8.9	69.2	2884.0	10770
418	H/1.4	Y	87.3	-8.9	78.4	8317.6	10770
418	H/1.6	Z	72.1	-8.9	63.2	1445.4	10770
418	V/1.0	X	85.5	-8.9	76.6	6760.8	10770
418	V/1.3	Y	80.1	-8.9	71.2	3630.8	10770
418	V/1.3	Z	79.3	-8.9	70.4	3311.3	10770
836	H/1.1	X	54.8	-8.9	45.9	197.2	1077
836	H/1.0	Y	49.2	-8.9	40.3	103.5	1077
836	H/1.5	Z	48.6	-8.9	39.7	96.6	1077
836	V/1.6	X	49.1	-8.9	40.2	102.3	1077
836	V/1.5	Y	55.3	-8.9	46.4	208.9	1077
836	V/1.8	Z	50.0	-8.9	41.1	113.5	1077
1254	H/1.7	X	46.1	-8.9	37.2	72.4	1077
1254	H/1.0	Y	43.6	-8.9	34.7	54.3	1077
1254	H/1.5	Z	45.7	-8.9	36.8	69.2	1077
1254	V/1.6	X	44.1	-8.9	35.2	57.5	1077
1254	V/1.8	Y	45.9	-8.9	37.0	70.8	1077
1254	V/1.4	Z	41.9	-8.9	33.0	44.7	1077
1672	H/1.6	X	45.2	-8.9	36.3	65.3	500
1672	H/1.0	Y	*37.4	-8.9	28.5	26.6	500
1672	H/1.4	Z	43.7	-8.9	34.8	55.0	500
1672	V/1.0	X	*37.4	-8.9	28.5	26.6	500
1672	V/1.4	Y	44.5	-8.9	35.6	60.3	500
1672	V/1.0	Z	*37.4	-8.9	28.5	26.6	500
2090	H/1.2	X	53.8	-8.9	44.9	175.8	1077
2090	H/1.1	Y	50.5	-8.9	41.6	120.2	1077
2090	H/1.2	Z	50.9	-8.9	42.0	125.9	1077
2090	V/1.2	X	51.8	-8.9	42.9	139.6	1077
2090	V/1.3	Y	52.5	-8.9	43.6	151.4	1077
2090	V/1.3	Z	50.1	-8.9	41.2	114.8	1077
The frequency range was scanned from 30 MHz to 4.2 GHz. All emissions not recorded were more than 10dB below the specified limit.							
Emissions from the EUT do not exceed the specified limits.							
*-Noise Floor Measurement							

RETLIF TESTING LABORATORIES

TABULAR DATA SHEET

TEST METHOD:	FCC Part 15 Subpart C Radiated Emissions		
CUSTOMER:	X-10 (USA) Inc.	JOB No.:	R-7407-1
TEST SAMPLE:	Remote Control Transmitter FCC ID: B4SRCSAT2		
MODEL No.:	RCSAT1RF-A	SERIAL No.:	N/A
TEST SPECIFICATION:	FCC Part 15 Subpart C PARAGRAPH: 15.231		
OPERATING MODE:	Continuously Transmitting 418 Mhz Signal		
TECHNICIAN:	Dennis Cortes	DATE:	April 2, 1998
NOTES:	Test Distance: 3 Meters Detector Function: Peak Worst Case Duty Cycle: 36.0% (-8.9 dB Duty Cycle Correction Factor)		

Test Frequency	Antenna Pol./Height	EUT Orientation	Peak Corrected Reading	Duty Cycle Corr. Factor	Corrected Average	Converted Average	Average Limit
MHz	(H/V) / meters	X / Y / Z	dBuV/m	dB	dBuV/m	uV/m	uV/m
2508	H/1.1	X	46.3	-8.9	37.4	74.1	1077
2508	H/1.0	Y	*41.2	-8.9	32.3	41.2	1077
2508	H/1.1	Z	45.0	-8.9	36.1	63.8	1077
2508	V/1.0	X	*41.2	-8.9	32.3	41.2	1077
2508	V/1.4	Y	45.8	-8.9	36.9	70.0	1077
2508	V/1.0	Z	*41.2	-8.9	32.3	41.2	1077
2926	H/1.0	X	*43.1	-8.9	34.2	51.3	1077
2926	H/1.0	Y	*43.1	-8.9	34.2	51.3	1077
2926	H/1.0	Z	*43.1	-8.9	34.2	51.3	1077
2926	V/1.0	X	*43.1	-8.9	34.2	51.3	1077
2926	V/1.0	Y	*43.1	-8.9	34.2	51.3	1077
2926	V/1.0	Z	*43.1	-8.9	34.2	51.3	1077
3344	H/1.0	X	*46.2	-8.9	37.3	73.3	1077
3344	H/1.0	Y	*46.2	-8.9	37.3	73.3	1077
3344	H/1.0	Z	*46.2	-8.9	37.3	73.3	1077
3344	V/1.0	X	*46.2	-8.9	37.3	73.3	1077
3344	V/1.0	Y	*46.2	-8.9	37.3	73.3	1077
3344	V/1.0	Z	*46.2	-8.9	37.3	73.3	1077
3762	H/1.0	X	*48.7	-8.9	39.8	97.7	500
3762	H/1.0	Y	*48.7	-8.9	39.8	97.7	500
3762	H/1.0	Z	*48.7	-8.9	39.8	97.7	500
3762	V/1.0	X	*48.7	-8.9	39.8	97.7	500
3762	V/1.0	Y	*48.7	-8.9	39.8	97.7	500
3762	V/1.0	Z	*48.7	-8.9	39.8	97.7	500
4180	H/1.0	X	*52.0	-8.9	43.1	142.9	500
4180	H/1.0	Y	*52.0	-8.9	43.1	142.9	500
4180	H/1.0	Z	*52.0	-8.9	43.1	142.9	500
4180	V/1.0	X	*52.0	-8.9	43.1	142.9	500
4180	V/1.0	Y	*52.0	-8.9	43.1	142.9	500
4180	V/1.0	Z	*52.0	-8.9	43.1	142.9	500
The frequency range was scanned from 30 MHz to 4.2 GHz. All emissions not recorded were more than 10dB below the specified limit.							
Emissions from the EUT do not exceed the specified limits.							
*=Noise Floor Measurement							

Exhibit 6

Report of Measurements

Occupied Bandwidth, Para. 15.231(c)



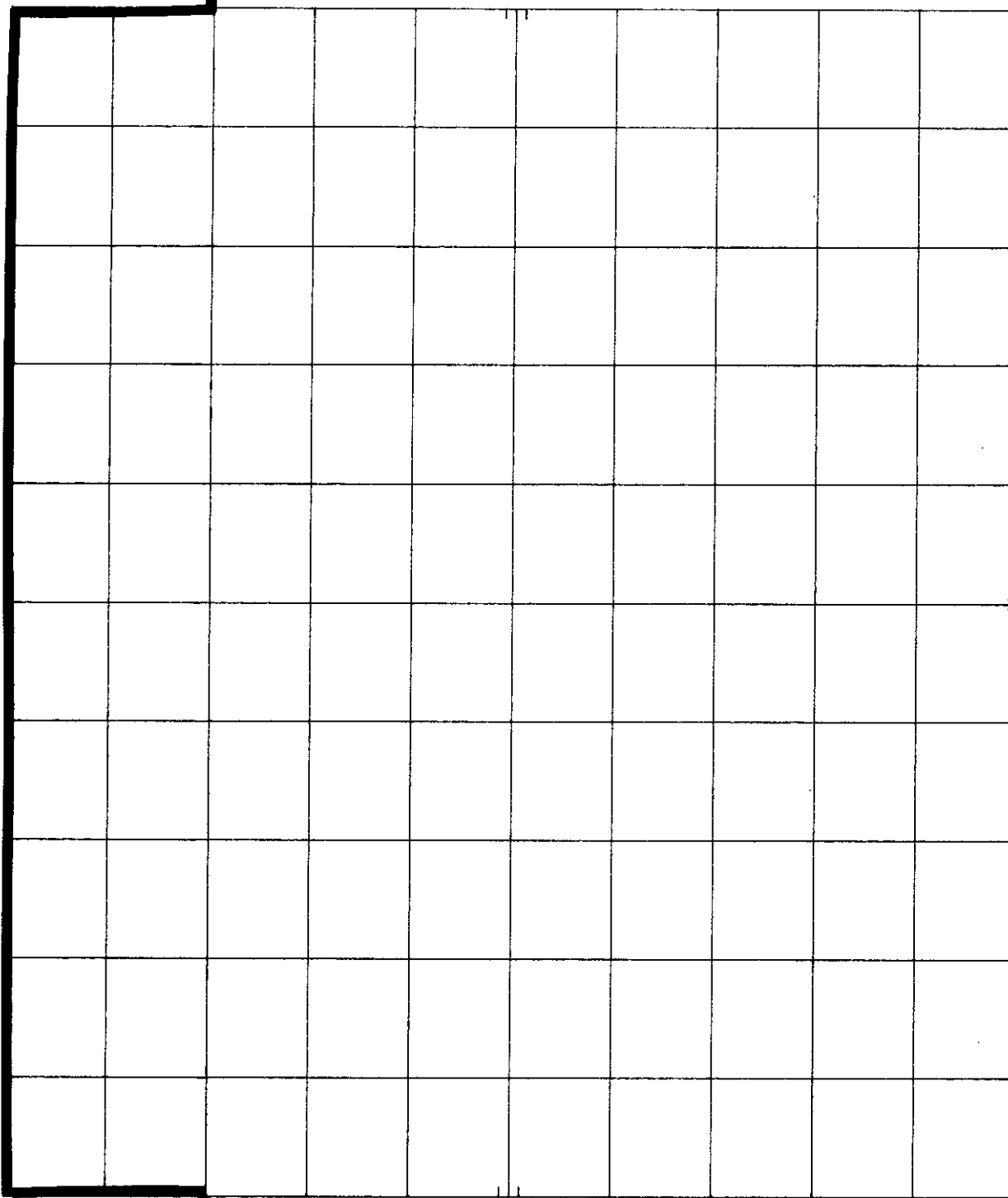
Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

R-7407-1 X-10 FCC15.231 OCC BW DC 3/31/98
 REF 77.5 dBμV ATTEN 10 dB

hp

10 dB/



SPAN 1.05 MHz
 SWP 31.5 msec

VBW 30 kHz

CENTER 418.19 MHz
 RES BW 10 kHz

Customer:	X-10 (USA) Inc		
Test Sample:	Remote Control Transmitter		
Model No.:	RCSAT1RF-A	FCC ID: B4SRCSAT2	
Test Method:	FCC 15.231 (c) Occupied Bandwidth		
Notes:	The Bandwidth of the emissions is not wider than .25% of the Center Frequency 20dB down from the Modulated carrier		
Date:	March 31, 1998	Tech:	Dennis Cortes
Sheet	1	of	2



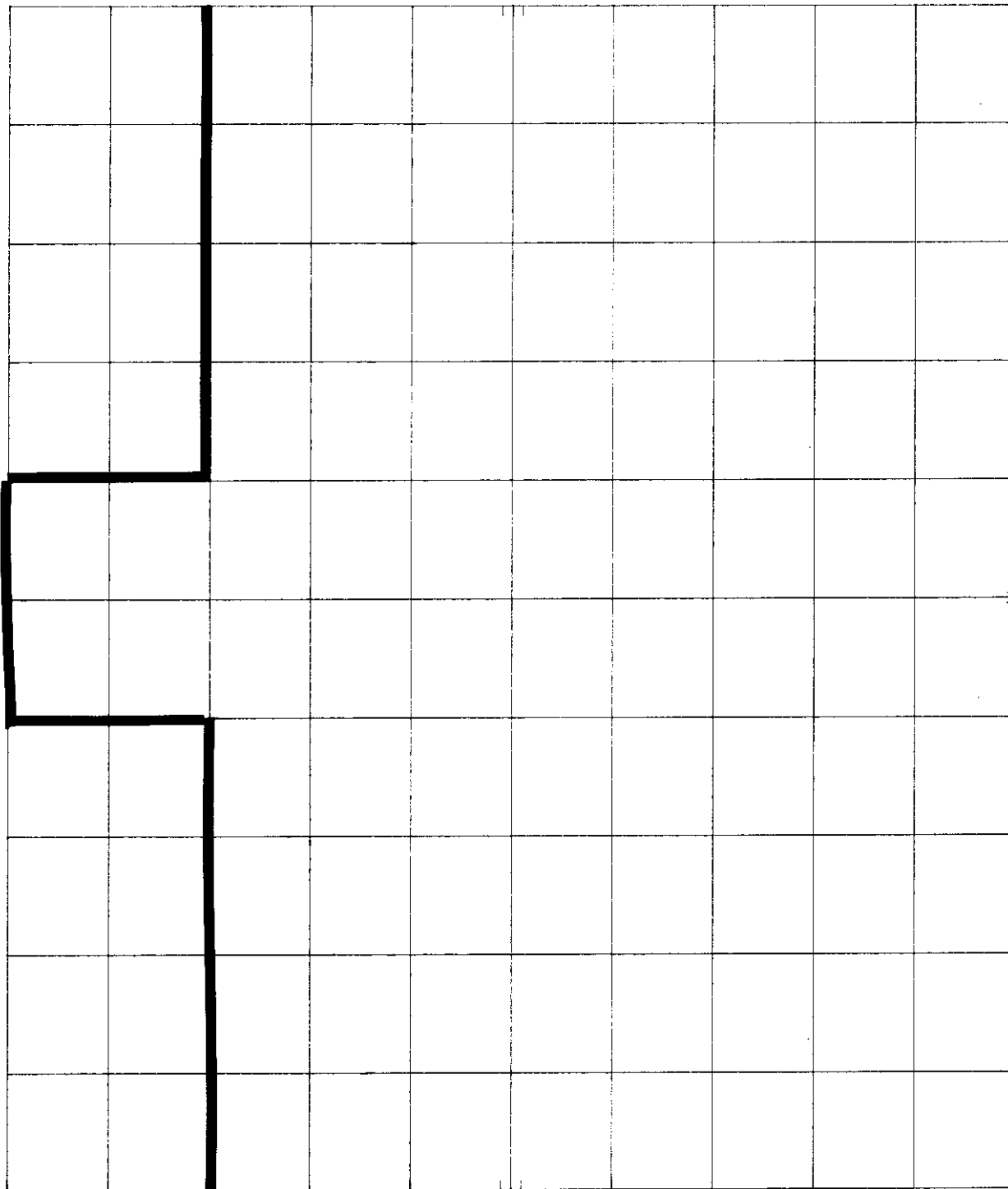
Retlif Testing Laboratories

Report No. R-7407-1

R-7407-1 X-10 FCC15.231 OCC BW DC 3/31/98
 REF 79.7 dBμV ATTEN 10 dB

hp

10 dB/



CENTER 418.16 MHz
 RES BW 10 kHz
 VBW 30 kHz
 SPAN 5.25 MHz
 SWP 158 msec

Customer:	X-10 (USA) Inc			
Test Sample:	Remote Control Transmitter			
Model No:	RCSAT1RF-A	FCC ID:B4SRCSAT2		
Test Method:	FCC 15.231 (c) Occupied Bandwidth			
Notes:	The Bandwidth of the emissions is not wider than .25% of the Center Frequency 20dB down from the Modulated carrier			
Date:	March 31, 1998	Tech:	Dennis Cortes	Sheet 2 of 2



Retlif Testing Laboratories

Report No. R-7407-1

Exhibit 6

Report of Measurements

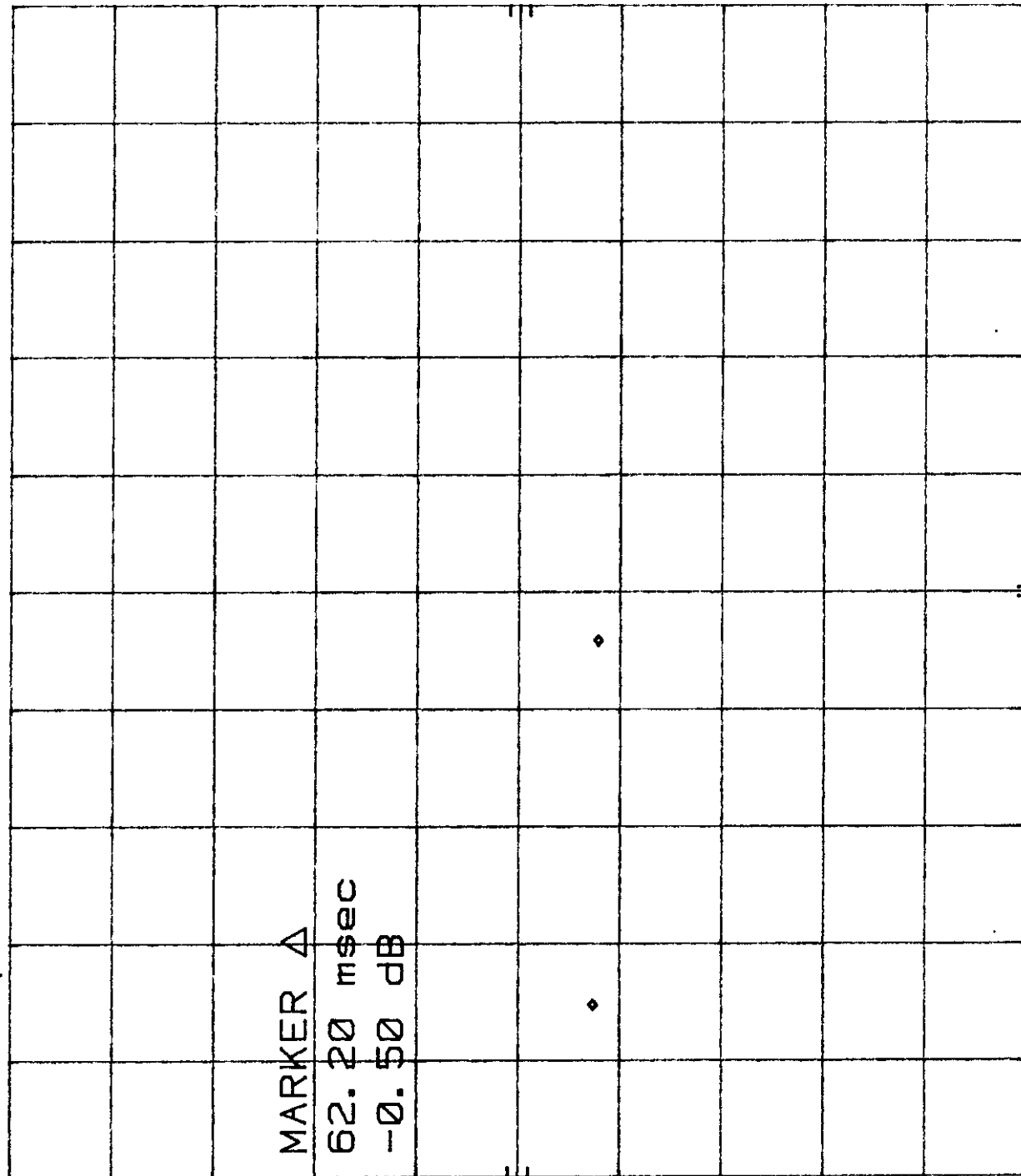
Duty Cycle Determination



Retlif Testing Laboratories

Test Report No. R-7407-1
FCC ID: B4SRCSAT2

h_p R-7407 RCSAT1 DUTY CYCLE 4/1/98 DC
REF 85.0 dBμV ATTEN 10 dB
MKR Δ 62.20 msec
-0.50 dB



CENTER 418.000 000 MHz
RES BW 100 kHz
VBW 300 kHz
SWP 200 msec
SPAN 0 Hz

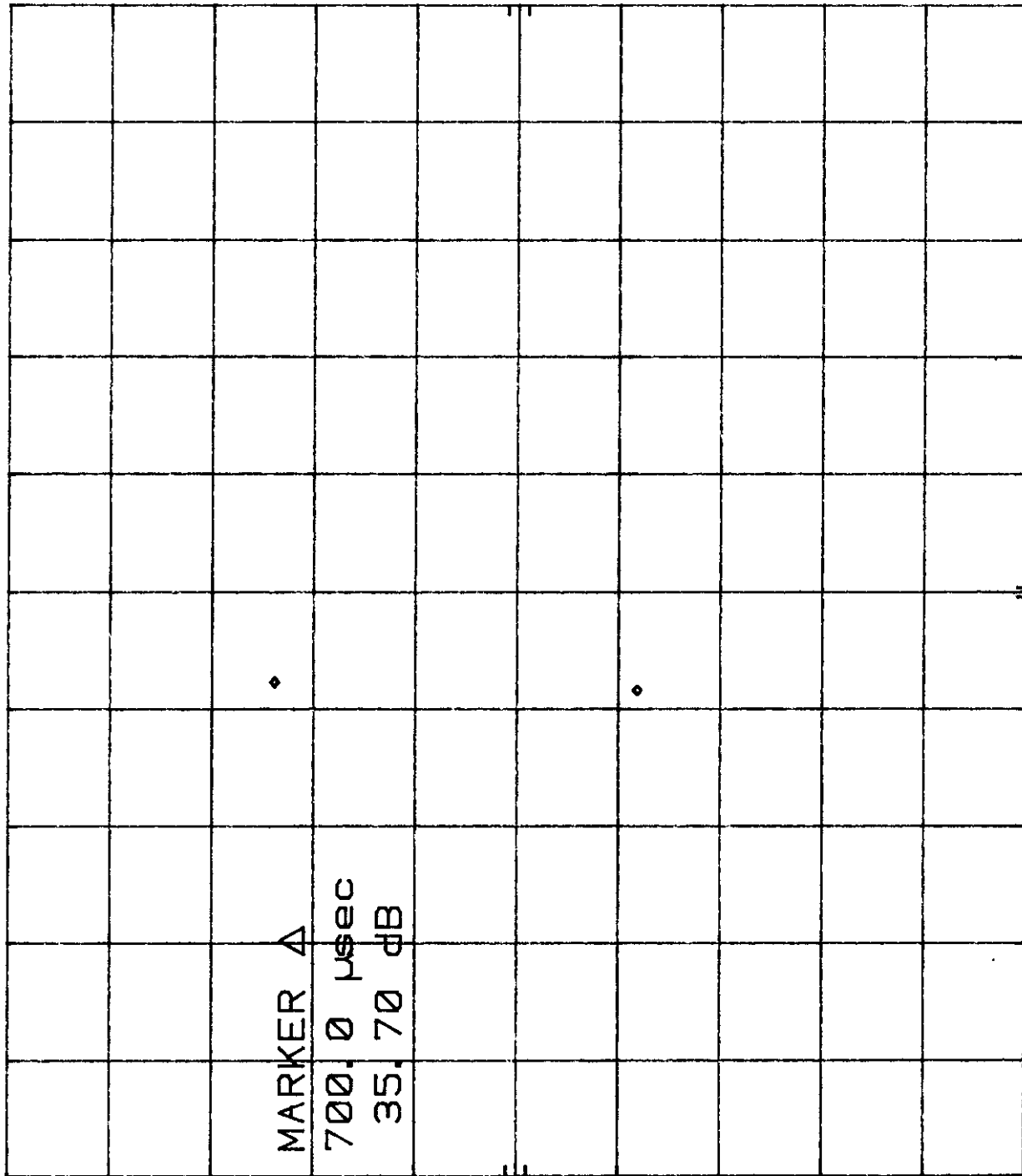
Customer:	X-10 (USA) Inc.		
Test Sample:	Remote Control Transmitter		
Model No.:	RCSAT1RF-A	FCC ID:	B4SRCSAT2
Test Method:	Duty Cycle Determination		
Notes:	Transmitter Cycle Time= 62.2ms		
Date:	April 1, 1998	Tech:	Dennis Cortes
Sheet:	1	of	3



Retlif Testing Laboratories

Report No. R-7407-1

HP
R-7407 RCSAT1 DUTY CYCLE 4/1/98 DC
REF 85.0 dBμV ATTEN 10 dB
MKR Δ 700.0 μsec
35.70 dB



CENTER 418.000 000 MHz
RES BW 100 kHz
VBW 300 kHz
SPAN 0 Hz
SWP 100 msec

Customer:	X-10 (USA) Inc.		
Test Sample:	Remote Control Transmitter		
Model No:	RCSAT1RF-A	FCC ID:B4SRCSAT2	
Test Method:	Duty Cycle Determination		
Notes:	Duty Cycle Minimum Pulse Width= 700us		
Date:	April 1, 1998	Tech:	Dennis Cortes
Sheet	2	of	3

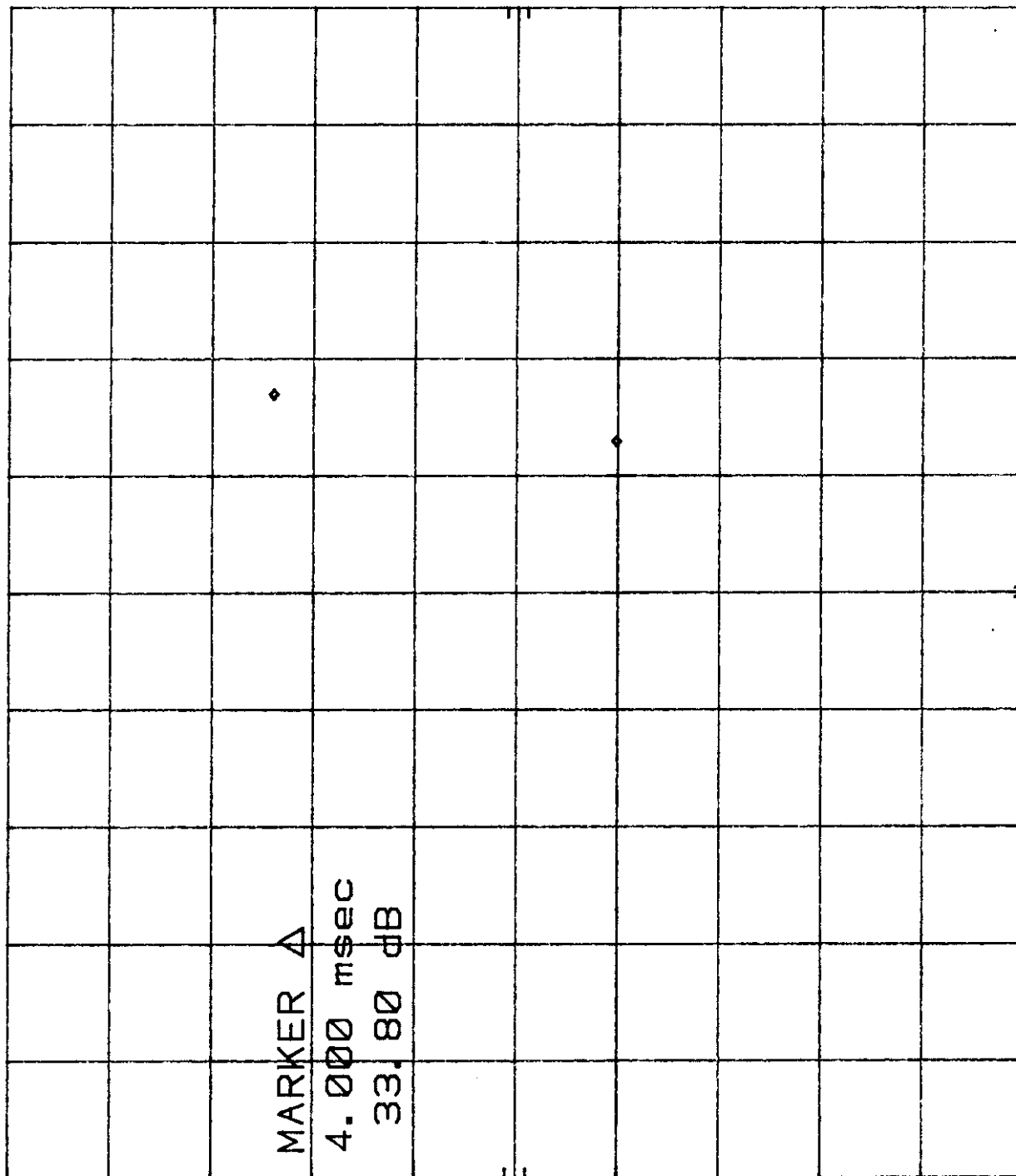


Retlif Testing Laboratories

Report No. R-7407-1

R-7407 RCSAT1 DUTY CYCLE 4/1/98 DC
 REF 85.0 dBμV ATTEN 10 dB
 MKR Δ 4.000 msec
 33.80 dB

hp
 10 dB/



CENTER 418.000 000 MHz
 RES BW 100 kHz
 VBW 300 kHz
 SWP 100 msec
 SPAN 0 Hz

Customer:	X-10 (USA) Inc.		
Test Sample:	Remote Control Transmitter		
Model No:	RCSAT1RF-A	FCC ID:B4SRCSAT2	
Test Method:	Duty Cycle Determination		
Notes:	Duty Cycle Large Pulse Width= 4ms		
Date:	April 1, 1998	Tech:	Dennis Cortes
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