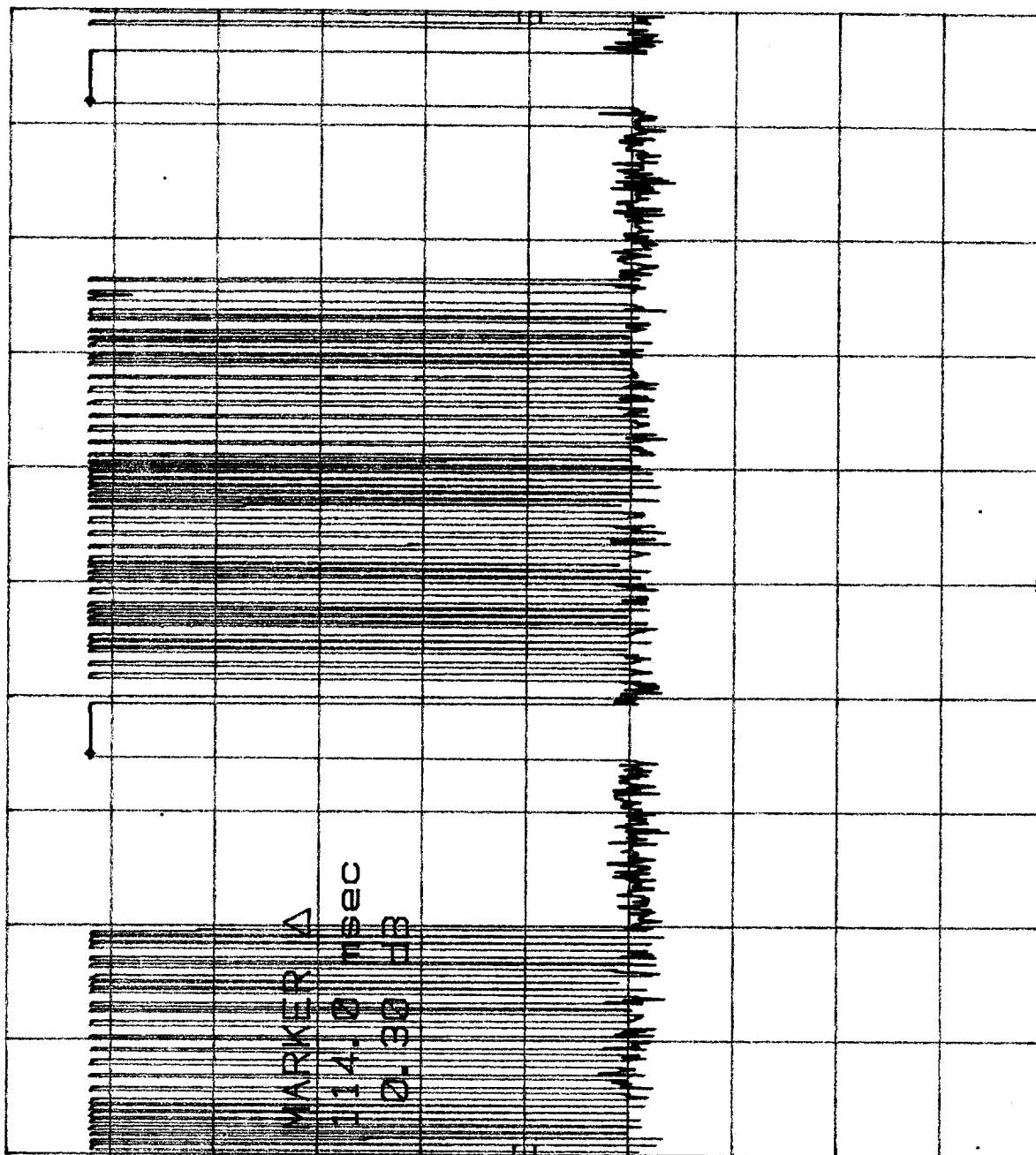


R-10346-1 X-10 Model DS11A DUTY CYCLE M8R4Δ121040 msec
 REF -30.0 dBm ATTN 0 dB 0.30 dB

10 dB/



CENTER 309.880 000 MHz
 RES BW 100 kHz
 SPAN 0 Hz
 SWP 200 msec
 VBW 300 kHz

Customer:	X-10 Wireless Technology, Inc.
Test Sample:	310 MHz Pulsed Transmitter (Motion Sensor)
Model No.:	DS11A, FCC ID: B4S-DS11A *
Test Method:	FCC, 15.35 Duty Cycle Determination
Notes:	Measurement of on time: Cycle time measurement Duty cycle= (9 + 21)/100= 30.0%Duty Cycle correction= -10.4 dB
Date:	April 12, 2004
Tech:	T. Schneider
Sheet	1 of 3

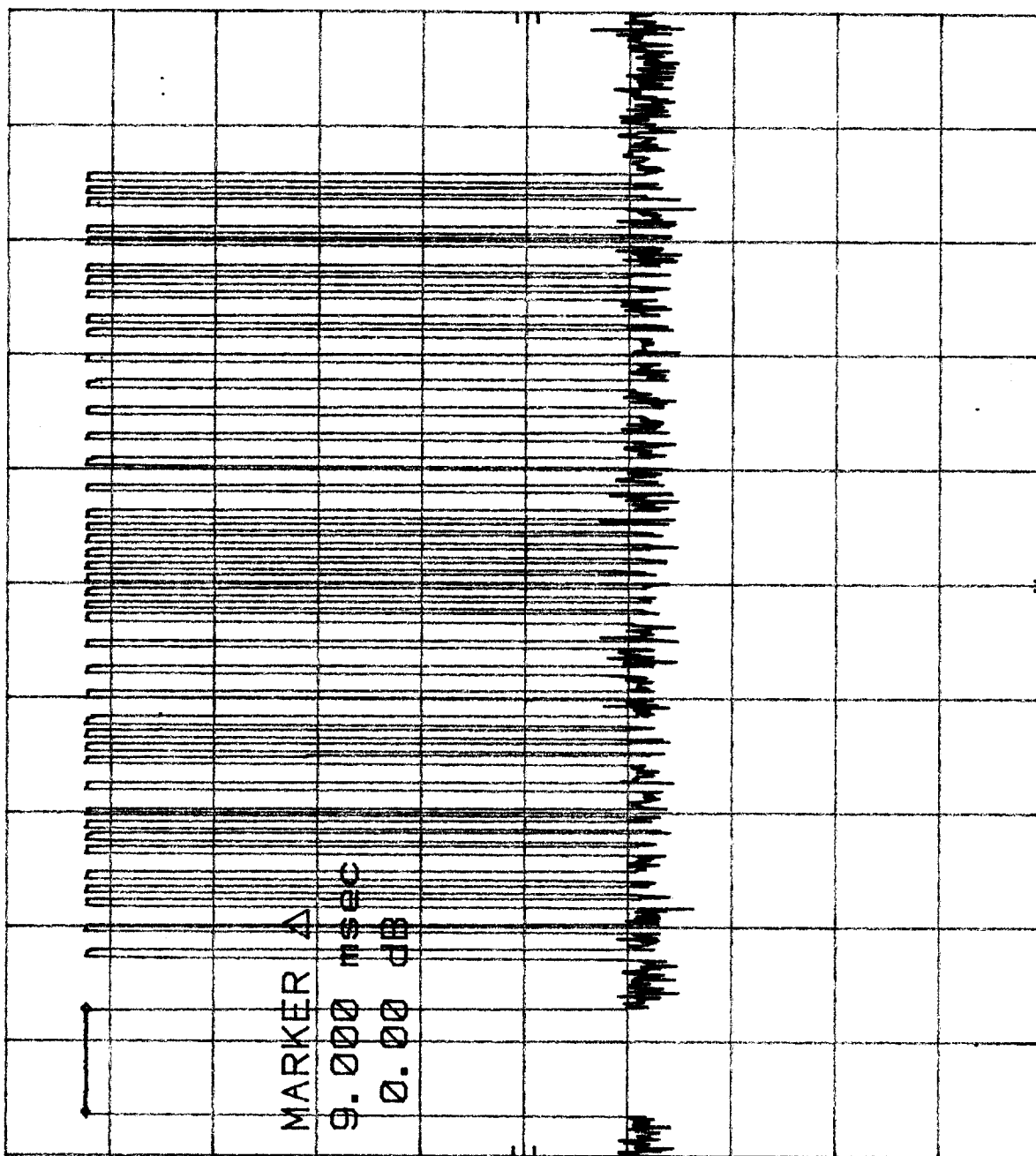


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Report No. R-10346-1

R-10346-1 X-10 Model DS11A DUTY CYCLE MARKER 9.000 msec
 REF -30.0 dBm ATTN 0 dB 0.00 dB

10 dB/



CENTER 309.880 000 MHz RES BW 100 kHz SPAN 0 Hz SWP 100 msec VBW 300 kHz

Customer:	X-10 Wireless Technology, Inc.
Test Sample:	310 MHz Pulsed Transmitter (Motion Sensor)
Model No.:	DS11A, FCC ID: B4S-DS11A
Test Method:	FCC, 15.35 Duty Cycle Determination
Notes:	Measurement of on time; Large pulse measurement Duty cycle= (9 + 21)/100= 30.0%Duty Cycle correction= -10.4 dB
Date:	April 12, 2004
Tech:	T. Schneider
Sheet	2 of 3



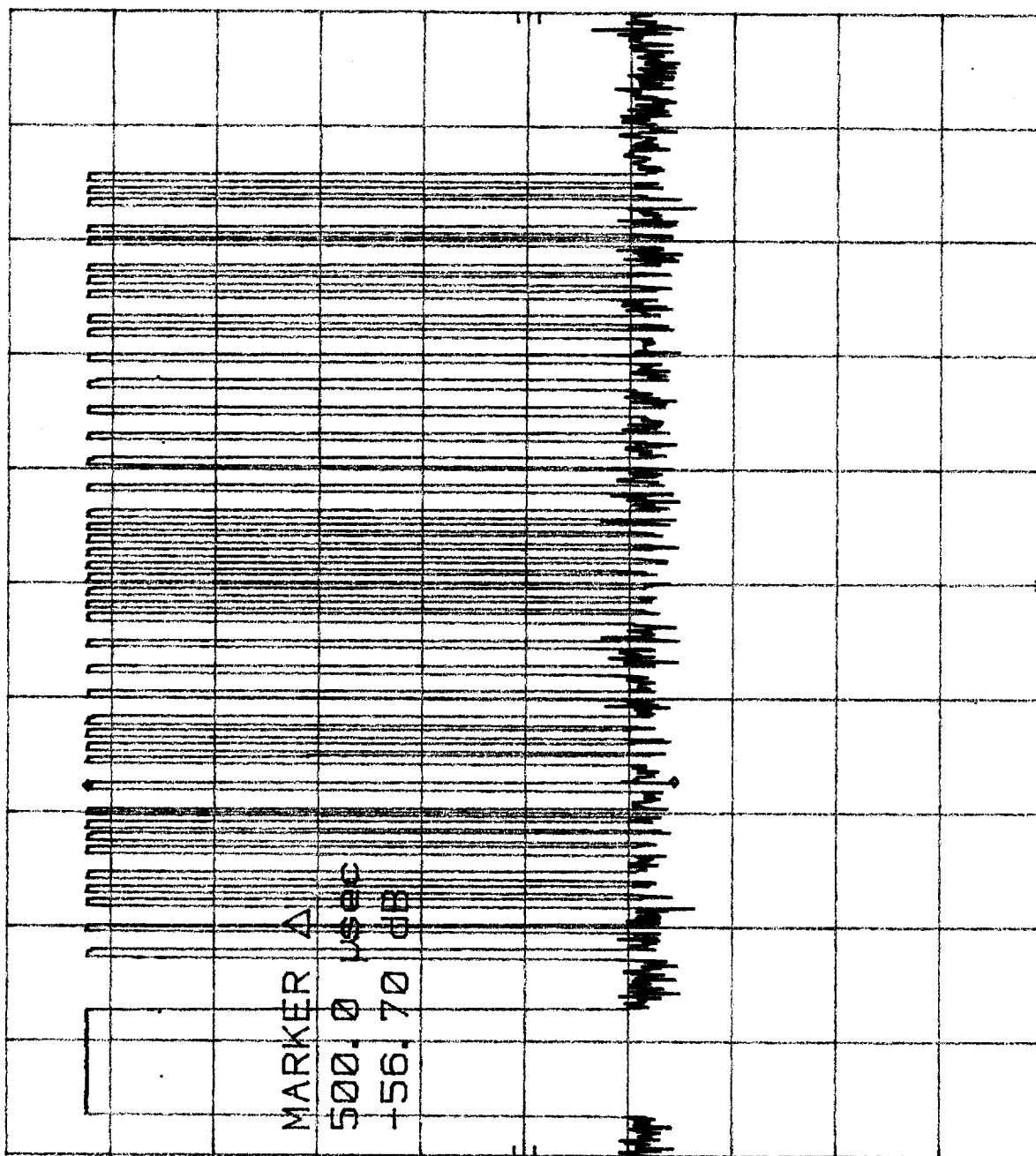
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Report No. R-10346-1

R-10346-1 X-10 Model DS11A DUTY CYCLE 78R4150040 μ sec
 REF -30.0 dBm ATTN 0 dB -56.70 dB

hp

10 dB/



MARKER Δ
 500.0 μ sec
 -56.70 dB

CENTER 309.880 000 MHz RES BW 100 kHz
 VBW 300 kHz SWP 100 msec SPAN 0 Hz

Customer:	X-10 Wireless Technology, Inc.
Test Sample:	310 MHz Pulsed Transmitter (Motion Sensor)
Model No.:	DS11A, FCC ID: B4S-DS11A
Test Method:	FCC, 15.35 Duty Cycle Determination
Notes:	Measurement of on time; 42 small pulse measurement @ 500 uSec each Duty cycle= (9 + 21)/100= 30.0% Duty Cycle correction= -10.4 dB
Date:	April 12, 2004
Tech:	T. Schneider
Sheet	3 of 3



Retlif Testing Laboratories

Report No. R-10346-1



Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-10346-1	
Test Sample:	Pulsed 310MHz Transmitter				Paragraph:	15.231	
Model No.:	DS11A				FCC ID:	B4S-DS11A	
Operating Mode:	Continuously Transmitting a pulsed 310 MHz signal						
Technician:	T. Schneider				Date:	April 12-14, 2004	
Notes:	Test Distance: 3 Meters Detector: Peak, Unless otherwise specified						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
	H / 1.0	Y	82.4	-2.1	80.3	10351.4	
	H / 1.0	Z	65.6	-2.1	63.5	1496.2	
	V / 1.0	X	67.9	-2.4	65.5	1883.6	
	V / 1.0	Y	63.3	-2.4	60.9	1109.2	
310	V / 2.0	Z	78.2	-2.4	75.8	6166.0	58330
620	H / 1.0	X	38.6	5.8	44.4	166.0	5833
	H / 1.0	Y	42.8	5.8	48.6	269.2	
	H / 1.0	Z	35.6	5.8	41.4	117.5	
	V / 1.0	X	34.6	0.5	35.1	56.9	
	V / 2.0	Y	37.2	0.5	37.7	76.7	
620	V / 1.0	Z	35.3	0.5	35.8	61.7	5833
930	H / 1.0	X	35.0	10.0	45	177.8	5833
	H / 1.0	Y	25.8	10.0	35.8	61.7	
	H / 1.0	Z	30.1	10.0	40.1	101.2	
	V / 1.0	X	28.6	9.7	38.3	82.2	
	V / 1.0	Y	35.3	9.7	45	177.8	
930	V / 1.0	Z	36.4	9.7	46.1	201.8	5833
1240	H / 1.0	X	40.1	2.7	42.8	138.0	5000
	H / 1.0	Y	40.1	2.7	42.8	138.0	
	H / 1.0	Z	40.1	2.7	42.8	138.0	
	V / 1.4	X	46.7	2.7	49.4	295.1	
	V / 1.0	Y	44.7	2.7	47.4	234.4	
1240	V / 1.0	Z	46.7	2.7	49.4	295.1	5000
1550	H / 1.0	X	41.0	0.9	41.9	124.5	5000
	H / 1.0	Y	41.0	0.9	41.9	124.5	
	H / 1.0	Z	41.0	0.9	41.9	124.5	
	V / 1.3	X	46.5	0.9	47.4	234.4	
	V / 1.7	Y	46.2	0.9	47.1	226.5	
1550	V / 1.3	Z	48.6	0.9	49.5	298.5	5000
	The Frequency Range was scanned from the first to the tenth harmonic. All emissions not reported herein are at least 10 dB below the specified limit. The EUT complies with the applicable limit.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



Retlif Testing Laboratories

Retlif Job Number R-10346-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-10346-1	
Test Sample:	Pulsed 310MHz Transmitter				Paragraph:	15.231	
Model No.:	DS11A				FCC ID:	B4S-DS11A	
Operating Mode:	Continuously Transmitting a pulsed 310 MHz signal						
Technician:	T. Schneider				Date:	April 12-14, 2004	
Notes:	Test Distance: 3 Meters Detector: Peak, unless otherwise specified						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
	H / 1.0	Y	38.5	2.2	40.7	108.4	
	H / 1.0	Z	38.5	2.2	40.7	108.4	
	V / 1.0	X	45.6	2.2	47.8	245.5	
	V / 1.0	Y	38.5	2.2	40.7	108.4	
1860	V / 1.0	Z	45.8	2.2	48	251.2	5833
2170	H / 1.0	X	39.1	-3.2	35.9	62.4	5833
	H / 1.0	Y	39.1	-3.2	35.9	62.4	
	H / 1.0	Z	39.1	-3.2	35.9	62.4	
	V / 1.0	X	39.1	-3.2	35.9	62.4	
	V / 1.0	Y	39.1	-3.2	35.9	62.4	
2170	V / 1.0	Z	39.1	-3.2	35.9	62.4	5833
2480	H / 1.0	X	38.2	-5.1	33.1	45.2	5833
	H / 1.0	Y	38.2	-5.1	33.1	45.2	
	H / 1.0	Z	38.2	-5.1	33.1	45.2	
	V / 1.0	X	38.2	-5.1	33.1	45.2	
	V / 1.0	Y	38.2	-5.1	33.1	45.2	
2480	V / 1.0	Z	38.2	-5.1	33.1	45.2	5833
2790	H / 1.0	X	40.5	-6.3	34.2	51.3	5000
	H / 1.0	Y	40.5	-6.3	34.2	51.3	
	H / 1.0	Z	40.5	-6.3	34.2	51.3	
	V / 1.0	X	40.5	-6.3	34.2	51.3	
	V / 1.0	Y	40.5	-6.3	34.2	51.3	
2790	V / 1.0	Z	40.5	-6.3	34.2	51.3	5000
3100	H / 1.0	X	37.6	-8.1	29.5	29.9	5833
	H / 1.0	Y	37.6	-8.1	29.5	29.9	
	H / 1.0	Z	37.6	-8.1	29.5	29.9	
	V / 1.0	X	37.6	-8.1	29.5	29.9	
	V / 1.0	Y	37.6	-8.1	29.5	29.9	
3100	V / 1.0	Z	37.6	-8.1	29.5	29.9	5833
	The Frequency Range was scanned from the first to the tenth harmonic. All emissions not reported herein are at least 10 dB below the specified limit. The EUT complies with the applicable limit.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



Retlif Testing Laboratories

Retlif Job Number R-10346-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-10346-1	
Test Sample:	Pulsed 310MHz Transmitter				Paragraph:	15.231	
Model No.:	DS11A				FCC ID:	B4S-DS11A	
Operating Mode:	Continuously Transmitting a pulsed 310 MHz signal						
Technician:	T. Schneider				Date:	April 12-14, 2004	
Notes:	Test Distance: 3 Meters				Duty Cycle: 30.0%		
	Detector: Peak, unless otherwise specified				Duty Cycle Correction:-10.4 dB		
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
	H / 1.0	Y	80.3	-10.4	69.9	3126.1	
	H / 1.0	Z	63.5	-10.4	53.1	451.9	
	V / 1.0	X	65.5	-10.4	55.1	568.9	
	V / 1.0	Y	60.9	-10.4	50.5	335.0	
310	V / 2.0	Z	75.8	-10.4	65.4	1862.1	5833
620	H / 1.0	X	44.4	-10.4	34.0	50.1	583
	H / 1.0	Y	48.6	-10.4	38.2	81.3	
	H / 1.0	Z	41.4	-10.4	31.0	35.5	
	V / 1.0	X	35.1	-10.4	24.7	17.2	
	V / 2.0	Y	37.7	-10.4	27.3	23.2	
620	V / 1.0	Z	35.8	-10.4	25.4	18.6	583
930	H / 1.0	X	45	-10.4	34.6	53.7	583
	H / 1.0	Y	35.8	-10.4	25.4	18.6	
	H / 1.0	Z	40.1	-10.4	29.7	30.5	
	V / 1.0	X	38.3	-10.4	27.9	24.8	
	V / 1.0	Y	45	-10.4	34.6	53.7	
930	V / 1.0	Z	46.1	-10.4	35.7	61.0	583
1240	H / 1.0	X	42.8	-10.4	32.4	41.7	500
	H / 1.0	Y	42.8	-10.4	32.4	41.7	
	H / 1.0	Z	42.8	-10.4	32.4	41.7	
	V / 1.4	X	49.4	-10.4	39.0	89.1	
	V / 1.0	Y	47.4	-10.4	37.0	70.8	
1240	V / 1.0	Z	49.4	-10.4	39.0	89.1	500
1550	H / 1.0	X	41.9	-10.4	31.5	37.6	500
	H / 1.0	Y	41.9	-10.4	31.5	37.6	
	H / 1.0	Z	41.9	-10.4	31.5	37.6	
	V / 1.3	X	47.4	-10.4	37.0	70.8	
	V / 1.7	Y	47.1	-10.4	36.7	68.4	
1550	V / 1.3	Z	49.5	-10.4	39.1	90.2	500
	The Frequency Range was scanned from the first to the tenth harmonic. All emissions not reported herein are at least 10 dB below the specified limit. The EUT complies with the applicable limit.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



Retlif Testing Laboratories

Retlif Job Number R-10346-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-10346-1	
Test Sample:	Pulsed 310MHz Transmitter				Paragraph:	15.231	
Model No.:	DS11A				FCC ID:	B4S-DS11A	
Operating Mode:	Continuously Transmitting a pulsed 310 MHz signal						
Technician:	T.Schneider				Date:	April 12-14, 2004	
Notes:	Test Distance: 3 Meters				Duty Cycle:30.0%		
	Detector: Peak, unless otherwise specified				Duty Cycle Correction: -10.4 dB		
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
MHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
	H / 1.0	Y	40.7	-10.4	30.3	32.7	
	H / 1.0	Z	40.7	-10.4	30.3	32.7	
	V / 1.0	X	47.8	-10.4	37.4	74.1	
	V / 1.0	Y	40.7	-10.4	30.3	32.7	
1860	V / 1.0	Z	48	-10.4	37.6	75.9	583
2170	H / 1.0	X	35.9	-10.4	25.5	18.8	583
	H / 1.0	Y	35.9	-10.4	25.5	18.8	
	H / 1.0	Z	35.9	-10.4	25.5	18.8	
	V / 1.0	X	35.9	-10.4	25.5	18.8	
	V / 1.0	Y	35.9	-10.4	25.5	18.8	
2170	V / 1.0	Z	35.9	-10.4	25.5	18.8	583
2480	H / 1.0	X	33.1	-10.4	22.7	13.6	583
	H / 1.0	Y	33.1	-10.4	22.7	13.6	
	H / 1.0	Z	33.1	-10.4	22.7	13.6	
	V / 1.0	X	33.1	-10.4	22.7	13.6	
	V / 1.0	Y	33.1	-10.4	22.7	13.6	
2480	V / 1.0	Z	33.1	-10.4	22.7	13.6	583
2790	H / 1.0	X	34.2	-10.4	23.8	15.5	500
	H / 1.0	Y	34.2	-10.4	23.8	15.5	
	H / 1.0	Z	34.2	-10.4	23.8	15.5	
	V / 1.0	X	34.2	-10.4	23.8	15.5	
	V / 1.0	Y	34.2	-10.4	23.8	15.5	
2790	V / 1.0	Z	34.2	-10.4	23.8	15.5	500
3100	H / 1.0	X	29.5	-10.4	19.1	9.0	583
	H / 1.0	Y	29.5	-10.4	19.1	9.0	
	H / 1.0	Z	29.5	-10.4	19.1	9.0	
	V / 1.0	X	29.5	-10.4	19.1	9.0	
	V / 1.0	Y	29.5	-10.4	19.1	9.0	
3100	V / 1.0	Z	29.5	-10.4	19.1	9.0	583
	The Frequency Range was scanned from the first to the tenth harmonic. All emissions not reported herein are at least 10 dB below the specified limit. The EUT complies with the applicable limit.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



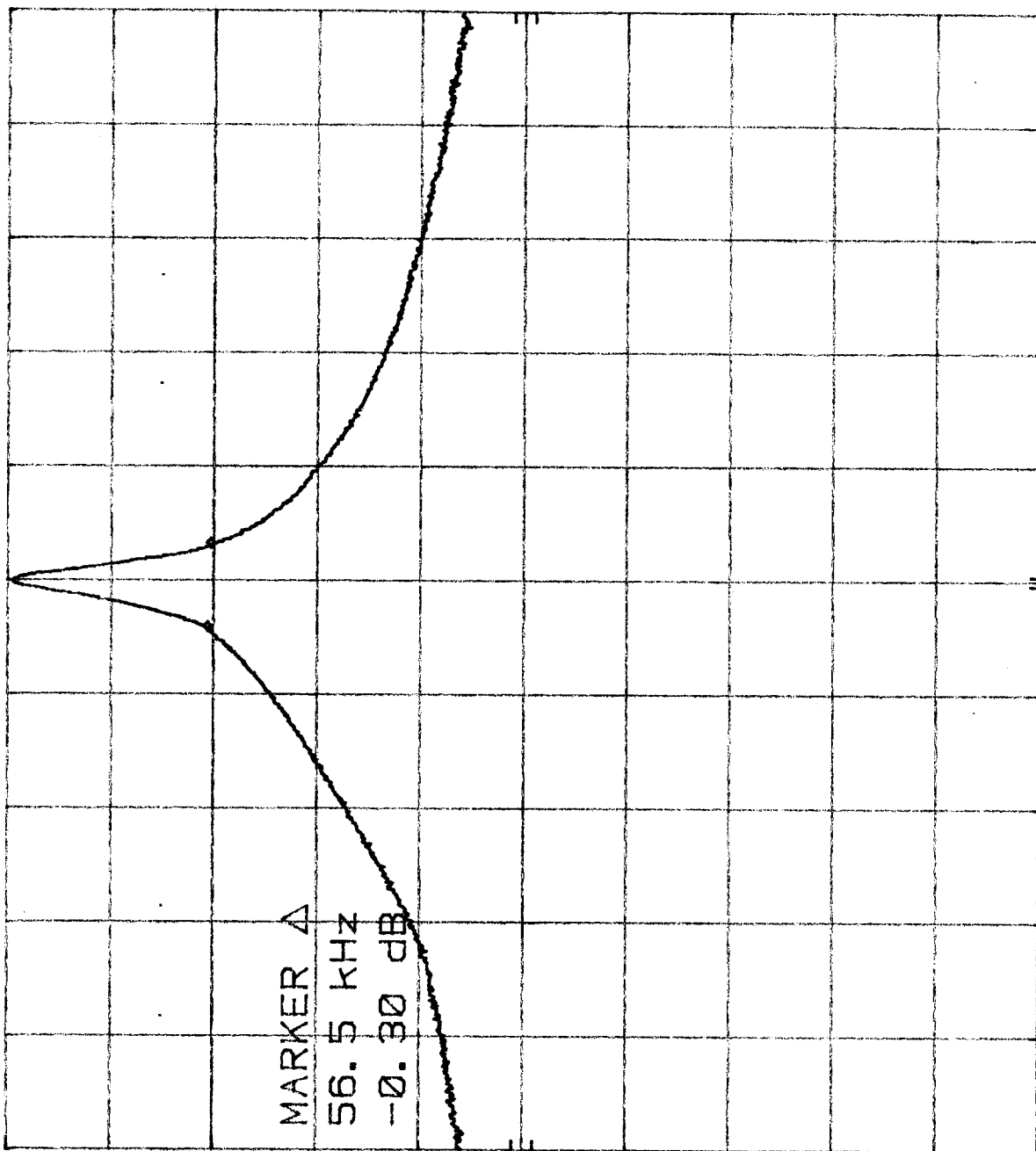
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Retlif Job Number R-10346-1

R-10346-1 X-10 Model 1 DS11A OCCUPIED BANDWIDTH MKRS Δ 56.5 kHz
 REF -37.5 dBm ATTN 0 dB -0.30 dB

10 dB/

DL
 -57.5 dBm
 MARKER Δ
 56.5 kHz
 -0.30 dB



CENTER 309.910 MHz RES BW 10 kHz SPAN 774 kHz SWP 200 msec VBW 30 kHz

Customer:	X-10Wireless Technology, Inc.
Test Sample:	310 MHz Pulsed Transmitter (Door/Window Sensor)
Model No.:	DS11A, FCC ID: B4S-DS11A
Test Method:	FCC 15.231(c) Occupied Bandwidth
Notes:	Bandwidth does not exceed 0.25% of Center Frequency (775 kHz) at the 20 dBc points
Date:	April 12, 2004
Tech:	T. Schneider
Sheet	1 of 1



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Report No. R-10346-1