



Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-10346-3	
Test Sample:	Pulsed 310MHz Transmitter				Paragraph:	15.231	
Model No.:	KR31A				FCC ID:	B4S-KR31A	
Operating Mode:	Continuously Transmitting a pulsed 310 MHz signal						
Technician:	T. Schneider				Date:	April 12, 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	77.8	-2.1	75.7	6095.4	
	H / 1.0	Z	76.9	-2.1	74.8	5495.4	
	V / 1.0	X	65.1	-2.4	62.7	1364.6	
	V / 2.0	Y	81.4	-2.4	79	8912.5	
310	V / 2.0	Z	82.7	-2.4	80.3	10351.4	58330
620	H / 1.0	X	45.7	5.8	51.5	375.8	5833
	H / 1.0	Y	44.5	5.8	50.3	327.3	
	H / 1.0	Z	41.6	5.8	47.4	234.4	
	V / 1.0	X	37.7	0.5	38.2	81.3	
	V / 2.0	Y	43.0	0.5	43.5	149.6	
620	V / 2.0	Z	45.6	0.5	46.1	201.8	5833
930	H / 1.0	X	25.0	10.0	35	56.2	5833
	H / 1.0	Y	25.0	10.0	35	56.2	
	H / 1.0	Z	25.0	10.0	35	56.2	
	V / 1.0	X	25.0	9.7	34.7	54.3	
	V / 1.0	Y	25.0	9.7	34.7	54.3	
930	V / 1.0	Z	25.0	9.7	34.7	54.3	5833
1240	H / 1.0	X	41.0	2.7	43.7	153.1	5000
	H / 1.0	Y	41.0	2.7	43.7	153.1	
	H / 1.0	Z	41.0	2.7	43.7	153.1	
	V / 1.0	X	41.0	2.7	43.7	153.1	
	V / 1.0	Y	41.0	2.7	43.7	153.1	
1240	V / 1.0	Z	45.5	2.7	48.2	257.0	5000
1550	H / 1.0	X	40.7	0.9	41.6	120.2	5000
	H / 1.0	Y	40.7	0.9	41.6	120.2	
	H / 1.0	Z	40.7	0.9	41.6	120.2	
	V / 1.0	X	40.7	0.9	41.6	120.2	
	V / 1.0	Y	40.7	0.9	41.6	120.2	
1550	V / 1.0	Z	40.7	0.9	41.6	120.2	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)						



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Test Sample:		Pulsed 310MHz Transmitter			Paragraph:		15.231	
Model No.:		KR31A			FCC ID:		B4S-KR31A	
Operating Mode:		Continuously Transmitting a pulsed 310 MHz signal						
Technician:		T. Schneider			Date:		April 13, 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	40.7	108.4		
	V / 1.0	Y	38.5	2.2	40.7	108.4		
1860	V / 1.0	Z	45.8	2.2	40.7	108.4	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.								
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Model No.:		KR31A			FCC ID:		B4S-KR31A	
Operating Mode:		Continuously Transmitting a pulsed 310 MHz signal						
Technician:		T. Schneider			Date:		April 13, 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	75.7	-10.4	65.3	1840.8		
	H / 1.0	Z	74.8	-10.4	64.4	1659.6		
	V / 1.0	X	62.7	-10.4	52.3	412.1		
	V /2.0	Y	79	-10.4	68.6	2691.5		
310	V / 2.0	Z	80.3	-10.4	69.9	3126.1	5833	
620	H / 1.0	X	51.5	-10.4	41.1	113.5	583	
	H / 1.0	Y	50.3	-10.4	39.9	98.9		
	H / 1.0	Z	47.4	-10.4	37	70.8		
	V /1.0	X	38.2	-10.4	27.8	24.5		
	V / 2.0	Y	43.5	-10.4	33.1	45.2		
620	V / 2.0	Z	46.1	-10.4	35.7	61.0	583	
930	H / 1.0	X	35	-10.4	24.6	17.0	583	
	H / 1.0	Y	35	-10.4	24.6	17.0		
	H / 1.0	Z	35	-10.4	24.6	17.0		
	V / 1.0	X	34.7	-10.4	24.3	16.4		
	V / 1.0	Y	34.7	-10.4	24.3	16.4		
930	V / 1.0	Z	34.7	-10.4	24.3	16.4	583	
1340	H / 1.0	X	43.7	-10.4	33.3	46.2	500	
	H / 1.0	Y	43.7	-10.4	33.3	46.2		
	H /1.0	Z	43.7	-10.4	33.3	46.2		
	V / 1.0	X	43.7	-10.4	33.3	46.2		
	V / 1.0	Y	43.7	-10.4	33.3	46.2		
1340	V / 1.0	Z	48.2	-10.4	37.8	77.6	500	
1550	H / 1.0	X	41.6	-10.4	31.2	36.3	500	
	H / 1.0	Y	41.6	-10.4	31.2	36.3		
	H /1.0	Z	41.6	-10.4	31.2	36.3		
	V / 1.0	X	41.6	-10.4	31.2	36.3		
	V / 1.0	Y	41.6	-10.4	31.2	36.3		
1550	V / 1.0	Z	41.6	-10.4	31.2	36.3	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)							



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Operating Mode:		Continuously Transmitting a pulsed 310 MHz signal					
Technician:		T. Schneider			Date:		April 13, 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	40.7	-10.4	37.4	32.7	
	V / 1.0	Y	40.7	-10.4	30.3	32.7	
1860	V / 1.0	Z	40.7	-10.4	37.6	32.7	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
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