

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-9895-3	
Test Sample:	Handheld 418MHz Pulsed RF Transmitter				Paragraph:	15.231 (b)	
Model No.:	FWIR				FCC ID:	B4SFWIR	
Operating Mode:	Continuously Transmitting a 418 MHz Signal						
Technician:	J. Kabacinski				Date:	April 29th, 2003	
Notes:	Test Distance: 3 Meters Detector: Peak, Unless otherwise specified				Temp: 21.0°C		Humidity: 60.0%

Frequency	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
418.0	H / 2.0	X	72.8	-0.9	71.9	3935.5	103,300
	H / 1.75	Y	72.2	-0.9	71.3	3672.8	
	H / 3.0	Z	63.0	-0.9	62.1	1273.5	
	V / 1.0	X	67.5	-0.9	66.6	2138.0	
	V / 1.5	Y	66.5	-0.9	65.6	1905.5	
418.0	V / 1.0	Z	76.6	-0.9	75.7	6095.4	103,300
836.0	H / 1.0	X	51.7	+7.4	59.1	901.6	10,330
	H / 1.0	Y	46.6	+7.4	54.0	501.2	
	H / 1.0	Z	44.9	+7.4	52.3	412.1	
	V / 1.0	X	40.5	+7.4	47.9	248.3	
	V / 1.0	Y	51.8	+7.4	59.2	912.0	
836.0	V / 1.0	Z	51.8	+7.4	59.2	912.0	10,330
1254.0	H / 1.0	X	49.6	-1.1	48.5	266.1	10,330
	H / 1.0	Y	43.0	-1.1	41.9	*124.5	
	H / 1.0	Z	45.0	-1.1	43.9	156.7	
	V / 1.0	X	43.0	-1.1	41.9	*124.5	
	V / 1.0	Y	50.6	-1.1	49.5	298.5	
1254.0	V / 1.0	Z	48.0	-1.1	46.9	221.3	10,330
1672.0	H / 1.0	X	47.0	+3.2	50.2	323.6	5,000
	H / 1.0	Y	44.0	+3.2	47.2	*229.1	
	H / 1.0	Z	44.0	+3.2	47.2	*229.1	
	V / 1.0	X	44.0	+3.2	47.2	*229.1	
	V / 1.0	Y	44.0	+3.2	47.2	*229.1	
1672.0	V / 1.0	Z	44.0	+3.2	47.2	*229.1	5,000
2090.0	H / 1.0	X	40.0	-2.6	37.4	*74.1	10,330
	H / 1.0	Y	40.0	-2.6	37.4	*74.1	
	H / 1.0	Z	40.0	-2.6	37.4	*74.1	
	V / 1.0	X	40.0	-2.6	37.4	*74.1	
	V / 1.0	Y	40.0	-2.6	37.4	*74.1	
2090.0	V / 1.0	Z	40.0	-2.6	37.4	*74.1	10,330

The frequency range was scanned from 30 MHz to 4.18 GHz.							
All emissions not recorded were more than 10 dB below the specified limit.							
Emissions from the EUT do not exceed the specified limits.							
*=Noise Floor Measurements (minimum system sensitivity).							



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Technician:	J. Kabacinski				Date:	April 29th, 2003	
Notes:	Test Distance: 3 Meters Detector: Peak, Unless otherwise specified				Temp: 21.0°C		Humidity: 60.0%
Frequency	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
2508.0	H / 1.0	X	43.0	-1.5	41.5	*118.9	10,330
	H / 1.0	Y	43.0	-1.5	41.5	*118.9	
	H / 1.0	Z	43.0	-1.5	41.5	*118.9	
	V / 1.0	X	43.0	-1.5	41.5	*118.9	
	V / 1.0	Y	43.0	-1.5	41.5	*118.9	
2508.0	V / 1.0	Z	43.0	-1.5	41.5	*118.9	10,330
2926.0	H / 1.0	X	42.0	+0.3	42.3	*130.3	10,330
	H / 1.0	Y	42.0	+0.3	42.3	*130.3	
	H / 1.0	Z	42.0	+0.3	42.3	*130.3	
	V / 1.0	X	42.0	+0.3	42.3	*130.3	
	V / 1.0	Y	42.0	+0.3	42.3	*130.3	
2926.0	V / 1.0	Z	42.0	+0.3	42.3	*130.3	10,330
3344.0	H / 1.0	X	41.0	+0.7	41.7	*121.6	10,330
	H / 1.0	Y	41.0	+0.7	41.7	*121.6	
	H / 1.0	Z	41.0	+0.7	41.7	*121.6	
	V / 1.0	X	41.0	+0.7	41.7	*121.6	
	V / 1.0	Y	41.0	+0.7	41.7	*121.6	
3344.0	V / 1.0	Z	41.0	+0.7	41.7	*121.6	10,330
3762.0	H / 1.0	X	42.0	+1.7	43.7	*153.1	5,000
	H / 1.0	Y	42.0	+1.7	43.7	*153.1	
	H / 1.0	Z	42.0	+1.7	43.7	*153.1	
	V / 1.0	X	42.0	+1.7	43.7	*153.1	
	V / 1.0	Y	42.0	+1.7	43.7	*153.1	
3762.0	V / 1.0	Z	42.0	+1.7	43.7	*153.1	5,000
4180.0	H / 1.0	X	42.0	+2.7	44.7	*171.8	5,000
	H / 1.0	Y	42.0	+2.7	44.7	*171.8	
	H / 1.0	Z	42.0	+2.7	44.7	*171.8	
	V / 1.0	X	42.0	+2.7	44.7	*171.8	
	V / 1.0	Y	42.0	+2.7	44.7	*171.8	
4180.0	V / 1.0	Z	42.0	+2.7	44.7	*171.8	5,000
	The frequency range was scanned from 30 MHz to 4.18 GHz.						
	All emissions not recorded were more than 10 dB below the specified limit.						
	Emissions from the EUT do not exceed the specified limits.						
	*=Noise Floor Measurements (minimum system sensitivity).						



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Operating Mode:	Continuously Transmitting a 418 MHz Signal						
Technician:	J. Kabacinski				Date:	April 29th, 2003	
Notes:	Test Distance: 3 Meters				Duty Cycle: 30.5 %		
	Detector: Peak, unless otherwise specified				Duty Cycle Correction: -10.33 dB		
Frequency	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
418.0	H / 2.0	X	71.9	-10.33	61.6	1198.1	10,330
	H / 1.75	Y	71.3	-10.33	61.0	1118.1	
	H / 3.0	Z	62.1	-10.33	51.8	387.7	
	V / 1.0	X	66.6	-10.33	56.3	650.9	
	V / 1.5	Y	65.6	-10.33	55.3	580.1	
418.0	V / 1.0	Z	75.7	-10.33	65.4	1855.7	10,330
836.0	H / 1.0	X	59.1	-10.33	48.8	274.5	1,033
	H / 1.0	Y	54.0	-10.33	43.7	152.6	
	H / 1.0	Z	52.3	-10.33	42.0	125.5	
	V / 1.0	X	47.9	-10.33	37.6	75.6	
	V / 1.0	Y	59.2	-10.33	48.9	277.7	
836.0	V / 1.0	Z	59.2	-10.33	48.9	277.7	1,033
1254.0	H / 1.0	X	48.5	-10.33	38.2	81.0	1,033
	H / 1.0	Y	41.9	-10.33	31.6	*37.9	
	H / 1.0	Z	43.9	-10.33	33.6	47.7	
	V / 1.0	X	41.9	-10.33	31.6	*37.9	
	V / 1.0	Y	49.5	-10.33	39.2	90.9	
1254.0	V / 1.0	Z	46.9	-10.33	36.6	67.4	1,033
1672.0	H / 1.0	X	50.2	-10.33	39.9	98.5	500
	H / 1.0	Y	47.2	-10.33	36.9	*69.7	
	H / 1.0	Z	47.2	-10.33	36.9	*69.7	
	V / 1.0	X	47.2	-10.33	36.9	*69.7	
	V / 1.0	Y	47.2	-10.33	36.9	*69.7	
1672.0	V / 1.0	Z	47.2	-10.33	36.9	*69.7	500
2090.0	H / 1.0	X	37.4	-10.33	27.1	*22.6	1,033
	H / 1.0	Y	37.4	-10.33	27.1	*22.6	
	H / 1.0	Z	37.4	-10.33	27.1	*22.6	
	V / 1.0	X	37.4	-10.33	27.1	*22.6	
	V / 1.0	Y	37.4	-10.33	27.1	*22.6	
2090.0	V / 1.0	Z	37.4	-10.33	27.1	*22.6	1,033
	The frequency range was scanned from 30 MHz to 4.18 GHz.						
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	*=Noise Floor Measurements (minimum system sensitivity).						



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	Detector: Peak, unless otherwise specified				Duty Cycle Correction: -10.33 dB		
Frequency	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
2508.0	H / 1.0	X	41.5	-10.33	31.2	*36.2	1,033
	H / 1.0	Y	41.5	-10.33	31.2	*36.2	
	H / 1.0	Z	41.5	-10.33	31.2	*36.2	
	V / 1.0	X	41.5	-10.33	31.2	*36.2	
	V / 1.0	Y	41.5	-10.33	31.2	*36.2	
2508.0	V / 1.0	Z	41.5	-10.33	31.2	*36.2	1,033
2926.0	H / 1.0	X	42.3	-10.33	32.0	*39.7	1,033
	H / 1.0	Y	42.3	-10.33	32.0	*39.7	
	H / 1.0	Z	42.3	-10.33	32.0	*39.7	
	V / 1.0	X	42.3	-10.33	32.0	*39.7	
	V / 1.0	Y	42.3	-10.33	32.0	*39.7	
2926.0	V / 1.0	Z	42.3	-10.33	32.0	*39.7	1,033
3344.0	H / 1.0	X	41.7	-10.33	31.4	*37.0	1,033
	H / 1.0	Y	41.7	-10.33	31.4	*37.0	
	H / 1.0	Z	41.7	-10.33	31.4	*37.0	
	V / 1.0	X	41.7	-10.33	31.4	*37.0	
	V / 1.0	Y	41.7	-10.33	31.4	*37.0	
3344.0	V / 1.0	Z	41.7	-10.33	31.4	*37.0	1,033
3762.0	H / 1.0	X	43.7	-10.33	33.4	*46.6	500
	H / 1.0	Y	43.7	-10.33	33.4	*46.6	
	H / 1.0	Z	43.7	-10.33	33.4	*46.6	
	V / 1.0	X	43.7	-10.33	33.4	*46.6	
	V / 1.0	Y	43.7	-10.33	33.4	*46.6	
3762.0	V / 1.0	Z	43.7	-10.33	33.4	*46.6	500
4180.0	H / 1.0	X	44.7	-10.33	34.4	*52.3	500
	H / 1.0	Y	44.7	-10.33	34.4	*52.3	
	H / 1.0	Z	44.7	-10.33	34.4	*52.3	
	V / 1.0	X	44.7	-10.33	34.4	*52.3	
	V / 1.0	Y	44.7	-10.33	34.4	*52.3	
4180.0	V / 1.0	Z	44.7	-10.33	34.4	*52.3	500
	The frequency range was scanned from 30 MHz to 4.18 GHz.						
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