

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-9936	
Test Sample:	433.92 MHz Pulsed RF Transmitter				Paragraph:	15.231 (b)	
Model No.:	UR91A				FCC ID:	B4SUR91A	
Operating Mode:	Continuously Transmitting a pulsed 433.92 MHz Signal						
Technician:	J. Kabacinski				Date:	06-06-03	
Notes:	Test Distance: 3 Meters Detector: Peak, unless otherwise specified				Temperature: 22.0°C Humidity: 58%		
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
433.92	H / 1.8	X	86.6	-0.7	85.9	19724.2	109,967
	H / 1.5	Y	83.6	-0.7	82.9	13963.7	
	H / 1.1	Z	75.0	-0.7	74.3	5188.0	
	V / 2.2	X	82.8	-0.7	82.1	12735.0	
	V / 1.0	Y	84.2	-0.7	83.5	14962.4	
433.92	V / 1.0	Z	88.9	-0.7	88.2	25704.0	109,967
867.84	H / 1.0	X	46.8	+8.0	54.8	549.5	10,996.7
	H / 1.0	Y	44.4	+8.0	52.4	416.9	
	H / 2.1	Z	40.4	+8.0	48.4	263.0	
	V / 1.3	X	42.2	+8.0	50.2	323.6	
	V / 1.0	Y	44.4	+8.0	52.4	416.9	
867.84	V / 1.0	Z	43.7	+8.0	51.7	384.6	10,996.7
1301.76	H / 1.0	X	42.5	-0.6	41.9	124.5	5,000
	H / 1.0	Y	45.7	-0.6	45.1	179.9	
	H / 1.0	Z	49.7	-0.6	49.1	285.1	
	V / 1.0	X	48.3	-0.6	47.7	242.7	
	V / 1.0	Y	49.1	-0.6	48.5	266.1	
1301.76	V / 1.1	Z	46.5	-0.6	45.9	197.2	5,000
1735.68	H / 1.0	X	44.5	+4.1	48.6	269.2	10,996.7
	H / 1.1	Y	42.8	+4.1	46.9	221.3	
	H / 1.0	Z	51.5	+4.1	55.6	602.6	
	V / 1.0	X	48.2	+4.1	52.3	412.1	
	V / 1.0	Y	47.1	+4.1	51.2	363.1	
1735.68	V / 1.2	Z	50.6	+4.1	54.7	543.3	10,996.7
2169.60	H / 1.0	X	42.0	-2.4	39.6	*95.5	10,996.7
	H / 1.0	Y	42.0	-2.4	39.6	*95.5	
	H / 1.1	Z	48.5	-2.4	46.1	201.8	
	V / 1.0	X	42.0	-2.4	39.6	*95.5	
	V / 1.0	Y	42.0	-2.4	39.6	*95.5	
2169.60	V / 1.0	Z	42.0	-2.4	39.6	*95.5	10,996.7
	The frequency range was scanned from 30 MHz to 4.3392 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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Notes:	Test Distance: 3 Meters Detector: Peak, unless otherwise specified				Temperature: 22.0°C Humidity: 58%		
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
2603.52	H / 1.0	X	43.0	-1.0	42.0	*125.9	10,996.7
	H / 1.0	Y	43.0	-1.0	42.0	*125.9	
	H / 1.1	Z	47.0	-1.0	46.0	199.5	
	V / 1.0	X	43.0	-1.0	42.0	*125.9	
	V / 1.0	Y	43.0	-1.0	42.0	*125.9	
2603.52	V / 1.0	Z	43.0	-1.0	42.0	*125.9	10,996.7
3037.44	H / 1.0	X	43.0	+0.6	43.6	*151.4	10,996.7
	H / 1.0	Y	43.0	+0.6	43.6	*151.4	
	H / 1.0	Z	43.0	+0.6	43.6	*151.4	
	V / 1.0	X	43.0	+0.6	43.6	*151.4	
	V / 1.0	Y	43.0	+0.6	43.6	*151.4	
3037.44	V / 1.0	Z	43.0	+0.6	43.6	*151.4	10,996.7
3471.36	H / 1.0	X	41.0	+0.9	41.9	*124.5	10,996.7
	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 / 1.0	X	41.0	+0.9	41.9	*124.5	
	V / 1.0	Y	41.0	+0.9	41.9	*124.5	
3471.36	V / 1.0	Z	41.0	+0.9	41.9	*124.5	10,996.7
3905.28	H / 1.0	X	41.0	+2.5	43.5	*149.6	5,000
	H / 1.0	Y	41.0	+2.5	43.5	*149.6	
	H / 1.0	Z	41.0	+2.5	43.5	*149.6	
	V / 1.0	X	41.0	+2.5	43.5	*149.6	
	V / 1.0	Y	41.0	+2.5	43.5	*149.6	
3905.28	V / 1.0	Z	41.0	+2.5	43.5	*149.6	5,000
4339.20	H / 1.0	X	41.0	+2.4	43.4	*147.9	5,000
	H / 1.0	Y	41.0	+2.4	43.4	*147.9	
	H / 1.0	Z	41.0	+2.4	43.4	*147.9	
	V / 1.0	X	41.0	+2.4	43.4	*147.9	
	V / 1.0	Y	41.0	+2.4	43.4	*147.9	
4339.20	V / 1.0	Z	41.0	+2.4	43.4	*147.9	5,000
	The frequency range was scanned from 30 MHz to 4.3392 GHz.						
	All emissions not recorded were more than 10 dB below the specified limit.						
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	*=Noise Floor Measurements (minimum system sensitivity).						



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Operating Mode:	Continuously Transmitting a pulsed 433.92 MHz Signal						
Technician:	J. Kabacinski				Date:	06-06-03	
Notes:	Test Distance: 3 Meters				Duty Cycle: 26.0 %		
	Detector: Peak, unless otherwise specified				Duty Cycle Correction: -11.7 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
433.92	H / 1.8	X	85.9	-11.7	74.2	5128.6	10,996.7
	H / 1.5	Y	82.9	-11.7	71.2	3630.8	
	H / 1.1	Z	74.3	-11.7	62.6	1349.0	
	V / 2.2	X	82.1	-11.7	70.4	3311.3	
	V / 1.0	Y	83.5	-11.7	71.8	3890.5	
433.92	V / 1.0	Z	88.2	-11.7	76.5	6683.4	10,996.7
867.84	H / 1.0	X	54.8	-11.7	43.1	142.9	1,099.7
	H / 1.0	Y	52.4	-11.7	40.7	108.4	
	H / 2.1	Z	48.4	-11.7	36.7	68.4	
	V / 1.3	X	50.2	-11.7	38.5	84.1	
	V / 1.0	Y	52.4	-11.7	40.7	108.4	
867.84	V / 1.0	Z	51.7	-11.7	40.0	100.0	1,099.7
1301.76	H / 1.0	X	41.9	-11.7	30.2	32.4	500
	H / 1.0	Y	45.1	-11.7	33.4	46.8	
	H / 1.0	Z	49.1	-11.7	37.4	74.1	
	V / 1.0	X	47.7	-11.7	36.0	63.1	
	V / 1.0	Y	48.5	-11.7	36.8	69.2	
1301.76	V / 1.1	Z	45.9	-11.7	34.2	51.3	500
1735.68	H / 1.0	X	48.6	-11.7	36.9	70.0	1,099.7
	H / 1.1	Y	46.9	-11.7	35.2	57.5	
	H / 1.0	Z	55.6	-11.7	43.9	156.7	
	V / 1.0	X	52.3	-11.7	40.6	107.2	
	V / 1.0	Y	51.2	-11.7	39.5	94.4	
1735.68	V / 1.2	Z	54.7	-11.7	43.0	141.3	1,099.7
2169.60	H / 1.0	X	39.6	-11.7	27.9	*24.8	1,099.7
	H / 1.0	Y	39.6	-11.7	27.9	*24.8	
	H / 1.1	Z	46.1	-11.7	34.4	52.5	
	V / 1.0	X	39.6	-11.7	27.9	*24.8	
	V / 1.0	Y	39.6	-11.7	27.9	*24.8	
2169.60	V / 1.0	Z	39.6	-11.7	27.9	*24.8	1,099.7
	The frequency range was scanned from 30 MHz to 4.3392 GHz.						
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	Detector: Peak, unless otherwise specified				Duty Cycle Correction: -11.7 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
2603.52	H / 1.0	X	42.0	-11.7	30.3	*32.7	1,099.7
	H / 1.0	Y	42.0	-11.7	30.3	*32.7	
	H / 1.1	Z	46.0	-11.7	34.3	51.9	
	V / 1.0	X	42.0	-11.7	30.3	*32.7	
	V / 1.0	Y	42.0	-11.7	30.3	*32.7	
2603.52	V / 1.0	Z	42.0	-11.7	30.3	*32.7	1,099.7
3037.44	H / 1.0	X	43.6	-11.7	31.9	*39.4	1,099.7
	H / 1.0	Y	43.6	-11.7	31.9	*39.4	
	H / 1.0	Z	43.6	-11.7	31.9	*39.4	
	V / 1.0	X	43.6	-11.7	31.9	*39.4	
	V / 1.0	Y	43.6	-11.7	31.9	*39.4	
3037.44	V / 1.0	Z	43.6	-11.7	31.9	*39.4	1,099.7
3471.36	H / 1.0	X	41.9	-11.7	30.2	*32.4	1,099.7
	H / 1.0	Y	41.9	-11.7	30.2	*32.4	
	H / 1.0	Z	41.9	-11.7	30.2	*32.4	
	V / 1.0	X	41.9	-11.7	30.2	*32.4	
	V / 1.0	Y	41.9	-11.7	30.2	*32.4	
3471.36	V / 1.0	Z	41.9	-11.7	30.2	*32.4	1,099.7
3905.28	H / 1.0	X	43.5	-11.7	31.8	*38.9	500
	H / 1.0	Y	43.5	-11.7	31.8	*38.9	
	H / 1.0	Z	43.5	-11.7	31.8	*38.9	
	V / 1.0	X	43.5	-11.7	31.8	*38.9	
	V / 1.0	Y	43.5	-11.7	31.8	*38.9	
3905.28	V / 1.0	Z	43.5	-11.7	31.8	*38.9	500
4339.20	H / 1.0	X	43.4	-11.7	31.7	*38.5	500
	H / 1.0	Y	43.4	-11.7	31.7	*38.5	
	H / 1.0	Z	43.4	-11.7	31.7	*38.5	
	V / 1.0	X	43.4	-11.7	31.7	*38.5	
	V / 1.0	Y	43.4	-11.7	31.7	*38.5	
4339.20	V / 1.0	Z	43.4	-11.7	31.7	*38.5	500
	The frequency range was scanned from 30 MHz to 4.3392 GHz.						
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