

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions					
Customer:		X-10			Job No.		R-9132-1
Test Sample:		434.1MHz Pulsed Transmitter			Paragraph:		15.231
Model No.:		UR84A			FCC ID:		B4SUR84A
Operating Mode:		Continuously Transmitting a 434.1MHz Signal					
Technician:		Peter Lananna			Date:		August 14, 2001
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
434.1	H / 1.5	X	70.5	-0.2	70.3	3273.4	110000
	H / 2.0	Y	74.8	-0.2	74.6	5370.3	
	H / 1.0	Z	74.7	-0.2	74.5	5308.8	
	V / 1.0	X	78.9	-0.2	78.7	8609.9	
	V / 2.0	Y	70.4	-0.2	70.2	3235.9	
434.1	V / 1.0	Z	76.1	-0.2	75.9	6237.3	110000
868.2	H / 1.0	X	27.2	7.9	35.1	56.9*	11000
	H / 1.0	Y	27.2	7.9	35.1	56.9*	
	H / 1.0	Z	27.2	7.9	35.1	56.9*	
	V / 1.0	X	27.2	7.9	35.1	56.9*	
	V / 1.0	Y	27.2	7.9	35.1	56.9*	
868.2	V / 1.0	Z	27.2	7.9	35.1	56.9*	11000
1302.3	H / 1.8	X	66.4	-1.4	65.0	1778.3	5000
	H / 1.8	Y	66.1	-1.4	64.7	1717.9	
	H / 2.0	Z	59.6	-1.4	58.2	812.8	
	V / 1.0	X	62.5	-1.4	61.1	1135.0	
	V / 2.5	Y	59.4	-1.4	58.0	794.3	
1302.3	V / 1.3	Z	65.6	-1.4	64.2	1621.8	5000
1736.4	H / 1.0	X	46.0	2.6	48.6	269.2*	11000
	H / 1.0	Y	46.0	2.6	48.6	269.2*	
	H / 1.0	Z	46.0	2.6	48.6	269.2*	
	V / 1.0	X	46.0	2.6	48.6	269.2*	
	V / 1.0	Y	46.0	2.6	48.6	269.2*	
1736.4	V / 1.0	Z	46.0	2.6	48.6	269.2*	11000
2170.5	H / 1.0	X	64.8	1.2	66.0	1995.3	11000
	H / 2.0	Y	61.1	1.2	62.3	1303.2	
	H / 3.3	Z	52.3	1.2	53.5	473.2	
	V / 1.0	X	55.6	1.2	56.8	691.8	
	V / 3.5	Y	53.2	1.2	54.4	524.8	
2170.5	V / 1.5	Z	61.1	1.2	62.3	1303.2	11000
	The frequency range was scanned from 30 MHz to 4.5 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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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	
2604.6	H / 1.0	X	59.2	4.2	63.4	1479.1	11000	
	H / 1.3	Y	58.1	4.2	62.3	1303.2		
	H / 1.3	Z	57.7	4.2	61.9	1244.5		
	V / 1.8	X	48.4	4.2	52.6	426.6		
	V / 1.5	Y	52.3	4.2	56.5	668.3		
2604.6	V / 1.5	Z	56.8	4.2	61.0	1122.0	11000	
3038.7	H / 1.0	X	52.0	6.4	58.4	831.8	11000	
	H / 1.5	Y	52.9	6.4	59.3	922.6		
	H / 1.0	Z	51.3	6.4	57.7	767.4		
	V / 1.0	X	40.8	6.4	47.2	229.1*		
	V / 1.0	Y	39.4	6.4	45.8	195.0*		
3038.7	V / 1.0	Z	51.0	6.4	57.4	741.3	11000	
3472.8	H / 1.0	X	39.9	8.3	48.2	257.0*	11000	
	H / 1.0	Y	39.9	8.3	48.2	257.0*		
	H / 1.0	Z	39.9	8.3	48.2	257.0*		
	V / 1.0	X	39.9	8.3	48.2	257.0*		
	V / 1.0	Y	39.9	8.3	48.2	257.0*		
3472.8	V / 1.0	Z	39.9	8.3	48.2	257.0*	11000	
3906.9	H / 1.0	X	40.3	10.2	50.5	335.0*	5000	
	H / 1.0	Y	40.3	10.2	50.5	335.0*		
	H / 1.0	Z	40.3	10.2	50.5	335.0*		
	V / 1.0	X	40.3	10.2	50.5	335.0*		
	V / 1.0	Y	40.3	10.2	50.5	335.0*		
3906.9	V / 1.0	Z	40.3	10.2	50.5	335.0*	5000	
4341.0	H / 1.0	X	38.2	11.7	49.9	312.6*	5000	
	H / 1.0	Y	38.2	11.7	49.9	312.6*		
	H / 1.0	Z	38.2	11.7	49.9	312.6*		
	V / 1.0	X	38.2	11.7	49.9	312.6*		
	V / 1.0	Y	38.2	11.7	49.9	312.6*		
4341.0	V / 1.0	Z	38.2	11.7	49.9	312.6*	5000	
	The frequency range was scanned from 30 MHz to 4.5 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 434.1MHz Signal						
Technician:		Peter Lananna			Date:		August 14, 2001	
Notes:		Test Distance: 3 Meters			Duty Cycle: 23.0%			
		Detector: Peak, unless otherwise specified			Duty Cycle Correction: - 12.8 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	
434.1	H / 1.5	X	70.3	-12.8	57.5	749.9	11000	
	H / 2.0	Y	74.6	-12.8	61.8	1230.3		
	H / 1.0	Z	74.5	-12.8	61.7	1216.2		
	V / 1.0	X	78.7	-12.8	65.9	1972.4		
	V / 2.0	Y	70.2	-12.8	57.4	741.3		
434.1	V / 1.0	Z	75.9	-12.8	63.1	1428.9	11000	
868.2	H / 1.0	X	35.1	-12.8	22.3	13.0*	1100	
	H / 1.0	Y	35.1	-12.8	22.3	13.0*		
	H / 1.0	Z	35.1	-12.8	22.3	13.0*		
	V / 1.0	X	35.1	-12.8	22.3	13.0*		
	V / 1.0	Y	35.1	-12.8	22.3	13.0*		
868.2	V / 1.0	Z	35.1	-12.8	22.3	13.0*	1100	
1302.3	H / 1.8	X	65.0	-12.8	52.2	407.4	500	
	H / 1.8	Y	64.7	-12.8	51.9	393.6		
	H / 2.0	Z	58.2	-12.8	45.4	186.2		
	V / 1.0	X	61.1	-12.8	48.3	260.0		
	V / 2.5	Y	58.0	-12.8	45.2	182.0		
1302.3	V / 1.3	Z	64.2	-12.8	51.4	371.5	500	
1736.4	H / 1.0	X	48.6	-12.8	35.8	61.7*	1100	
	H / 1.0	Y	48.6	-12.8	35.8	61.7*		
	H / 1.0	Z	48.6	-12.8	35.8	61.7*		
	V / 1.0	X	48.6	-12.8	35.8	61.7*		
	V / 1.0	Y	48.6	-12.8	35.8	61.7*		
1736.4	V / 1.0	Z	48.6	-12.8	35.8	61.7*	1100	
2170.5	H / 1.0	X	66.0	-12.8	53.2	457.1	1100	
	H / 2.0	Y	62.3	-12.8	49.5	298.5		
	H / 3.3	Z	53.5	-12.8	40.7	108.4		
	V / 1.0	X	56.8	-12.8	44.0	158.5		
	V / 3.5	Y	54.4	-12.8	41.6	120.2		
2170.5	V / 1.5	Z	62.3	-12.8	49.5	298.5	1100	
	The frequency range was scanned from 30 MHz to 4.5 GHz. All emissions not recorded were more							
	Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
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Notes:		Test Distance: 3 Meters			Duty Cycle: 23.0%			
		Detector: Peak, unless otherwise specified			Duty Cycle Correction: -12.8dB			
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	
2604.6	H / 1.0	X	63.4	-12.8	50.6	338.8	1100	
	H / 1.3	Y	62.3	-12.8	49.5	298.5		
	H / 1.3	Z	61.9	-12.8	49.1	285.1		
	V / 1.8	X	52.6	-12.8	39.8	97.7		
	V / 1.5	Y	56.5	-12.8	43.7	153.1		
2604.6	V / 1.5	Z	61.0	-12.8	48.2	257.0	1100	
3038.7	H / 1.0	X	58.4	-12.8	45.6	190.5	1100	
	H / 1.5	Y	59.3	-12.8	46.5	211.3		
	H / 1.0	Z	57.7	-12.8	44.9	175.8		
	V / 1.0	X	47.2	-12.8	34.4	52.5*		
	V / 1.0	Y	45.8	-12.8	33.0	44.7*		
3038.7	V / 1.0	Z	57.4	-12.8	44.6	169.8	1100	
3472.8	H / 1.0	X	48.2	-12.8	35.4	58.9*	1100	
	H / 1.0	Y	48.2	-12.8	35.4	58.9*		
	H / 1.0	Z	48.2	-12.8	35.4	58.9*		
	V / 1.0	X	48.2	-12.8	35.4	58.9*		
	V / 1.0	Y	48.2	-12.8	35.4	58.9*		
3472.8	V / 1.0	Z	48.2	-12.8	35.4	58.9*	1100	
3906.9	H / 1.0	X	50.5	-12.8	37.7	76.7*	500	
	H / 1.0	Y	50.5	-12.8	37.7	76.7*		
	H / 1.0	Z	50.5	-12.8	37.7	76.7*		
	V / 1.0	X	50.5	-12.8	37.7	76.7*		
	V / 1.0	Y	50.5	-12.8	37.7	76.7*		
3906.9	V / 1.0	Z	50.5	-12.8	37.7	76.7*	500	
4341.0	H / 1.0	X	49.9	-12.8	37.1	71.6*	500	
	H / 1.0	Y	49.9	-12.8	37.1	71.6*		
	H / 1.0	Z	49.9	-12.8	37.1	71.6*		
	V / 1.0	X	49.9	-12.8	37.1	71.6*		
	V / 1.0	Y	49.9	-12.8	37.1	71.6*		
4341.0	V / 1.0	Z	49.9	-12.8	37.1	71.6*	500	
	The frequency range was scanned from 30 MHz to 4.5 GHz. All emissions not recorded were more							
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