

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	Quantum Industries				Job No.	R-8568-1	
Test Sample:	433.92MHz AM Pulsed Transmitter				Paragraph:	15.231	
Model No.:	FW10				FCC ID:	CEXFW10	
Operating Mode:	Continuously Transmitting a 433.92MHz Signal						
Technician:	Peter Lananna				Date:	September 12, 2000	
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
433.9	H / 2.0	X	88.3	-0.6	87.7	24266.1	110000
	H / 1.0	Y	84.7	-0.6	84.1	16032.5	
	H / 2.0	Z	88.2	-0.6	87.6	23988.3	
	V / 1.0	X	93.2	-0.6	92.6	42658.0	
	V / 1.0	Y	89.3	-0.6	88.7	27227.0	
433.9	V / 1.0	Z	93.6	-0.6	93.0	44668.4	110000
867.8	H / 1.0	X	45.1	7.9	53.0	446.7	11000
	H / 1.3	Y	49.7	7.9	57.6	758.6	
	H / 1.0	Z	39.0	7.9	46.9	221.3*	
	V / 1.0	X	54.7	7.9	62.6	1349.0	
	V / 2.0	Y	41.2	7.9	49.1	285.1	
867.8	V / 1.0	Z	39.0	7.9	46.9	221.3*	11000
1301.7	H / 1.0	X	50.6	-1.3	49.3	291.7	500
	H / 1.3	Y	46.9	-1.3	45.6	190.5	
	H / 1.8	Z	50.6	-1.3	49.3	291.7	
	V / 1.0	X	50.3	-1.3	49.0	281.8	
	V / 2.0	Y	47.1	-1.3	45.8	195.0	
1301.7	V / 1.0	Z	49.2	-1.3	47.9	248.3	500
1735.6	H / 1.0	X	39.0	-3.1	35.9	62.4*	11000
	H / 1.0	Y	39.0	-3.1	35.9	62.4*	
	H / 1.0	Z	39.0	-3.1	35.9	62.4*	
	V / 1.0	X	39.0	-3.1	35.9	62.4*	
	V / 1.0	Y	39.0	-3.1	35.9	62.4*	
1735.6	V / 1.0	Z	39.0	-3.1	35.9	62.4*	11000
2169.5	H / 1.0	X	39.0	-1.6	37.4	74.1*	11000
	H / 1.0	Y	39.0	-1.6	37.4	74.1*	
	H / 1.0	Z	39.0	-1.6	37.4	74.1*	
	V / 1.0	X	39.0	-1.6	37.4	74.1*	
	V / 1.0	Y	39.0	-1.6	37.4	74.1*	
2169.5	V / 1.0	Z	39.0	-1.6	37.4	74.1*	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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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
2603.4	H / 1.0	X	39.0	0.6	39.6	95.5*	11000
	H / 1.0	Y	39.0	0.6	39.6	95.5*	
	H / 1.0	Z	39.0	0.6	39.6	95.5*	
	V / 1.0	X	39.0	0.6	39.6	95.5*	
	V / 1.0	Y	39.0	0.6	39.6	95.5*	
2603.4	V / 1.0	Z	39.0	0.6	39.6	95.5*	11000
3037.3	H / 1.0	X	39.0	3.1	42.1	127.4*	11000
	H / 1.0	Y	39.0	3.1	42.1	127.4*	
	H / 1.0	Z	39.0	3.1	42.1	127.4*	
	V / 1.0	X	39.0	3.1	42.1	127.4*	
	V / 1.0	Y	39.0	3.1	42.1	127.4*	
3037.3	V / 1.0	Z	39.0	3.1	42.1	127.4*	11000
3471.2	H / 1.0	X	39.0	7.1	46.1	201.8*	11000
	H / 1.0	Y	39.0	7.1	46.1	201.8*	
	H / 1.0	Z	39.0	7.1	46.1	201.8*	
	V / 1.0	X	39.0	7.1	46.1	201.8*	
	V / 1.0	Y	39.0	7.1	46.1	201.8*	
3471.2	V / 1.0	Z	39.0	7.1	46.1	201.8*	11000
3905.1	H / 1.0	X	39.0	8.9	47.9	248.3*	500
	H / 1.0	Y	39.0	8.9	47.9	248.3*	
	H / 1.0	Z	39.0	8.9	47.9	248.3*	
	V / 1.0	X	39.0	8.9	47.9	248.3*	
	V / 1.0	Y	39.0	8.9	47.9	248.3*	
3905.1	V / 1.0	Z	39.0	8.9	47.9	248.3*	500
4339.2	H / 1.0	X	39.0	9.8	48.8	275.4*	500
	H / 1.0	Y	39.0	9.8	48.8	275.4*	
	H / 1.0	Z	39.0	9.8	48.8	275.4*	
	V / 1.0	X	39.0	9.8	48.8	275.4*	
	V / 1.0	Y	39.0	9.8	48.8	275.4*	
4339.2	V / 1.0	Z	39.0	9.8	48.8	275.4*	500
	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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Operating Mode:		Continuously Transmitting a 433.92MHz Signal					
Technician:		Peter Lananna			Date:	September 12, 2000	
Notes:		Test Distance: 3 Meters			Duty Cycle: .05%		
		Detector: Peak, unless otherwise specified			Duty Cycle Correction: - 46.0dB		
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
433.9	H / 1.0	X	87.7	-46.0	41.7	121.6	11000
	H / 1.0	Y	84.1	-46.0	38.1	80.4	
	H / 1.0	Z	87.6	-46.0	41.6	120.2	
	V / 1.0	X	92.6	-46.0	46.6	213.8	
	V / 2.0	Y	88.7	-46.0	42.7	136.5	
433.9	V / 2.0	Z	93.0	-46.0	47.0	223.9	11000
867.8	H / 1.0	X	53.0	-46.0	7.0	2.2	1100
	H / 1.0	Y	57.6	-46.0	11.6	3.8	
	H / 1.0	Z	46.9	-46.0	0.9	1.1*	
	V / 1.5	X	62.6	-46.0	16.6	6.8	
	V / 1.0	Y	49.1	-46.0	3.1	1.4	
867.8	V / 1.5	Z	46.9	-46.0	0.9	1.1*	1100
1301.7	H / 1.0	X	49.3	-46.0	3.3	1.5	500
	H / 1.0	Y	45.6	-46.0	-0.4	1.0	
	H / 1.0	Z	49.3	-46.0	3.3	1.5	
	V / 2.0	X	49.0	-46.0	3.0	1.4	
	V / 1.5	Y	45.8	-46.0	-0.2	1.0	
1301.7	V / 1.5	Z	47.9	-46.0	1.9	1.2	500
1735.6	H / 1.0	X	35.9	-46.0	-10.1	0.3*	1100
	H / 1.0	Y	35.9	-46.0	-10.1	0.3*	
	H / 1.0	Z	35.9	-46.0	-10.1	0.3*	
	V / 1.0	X	35.9	-46.0	-10.1	0.3*	
	V / 1.0	Y	35.9	-46.0	-10.1	0.3*	
1735.6	V / 1.0	Z	35.9	-46.0	-10.1	0.3*	1100
2169.5	H / 1.0	X	37.4	-46.0	-8.6	0.4*	1100
	H / 1.0	Y	37.4	-46.0	-8.6	0.4*	
	H / 1.0	Z	37.4	-46.0	-8.6	0.4*	
	V / 1.0	X	37.4	-46.0	-8.6	0.4*	
	V / 1.0	Y	37.4	-46.0	-8.6	0.4*	
2169.5	V / 1.0	Z	37.4	-46.0	-8.6	0.4*	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: .05%		
		Detector: Peak, unless otherwise specified			Duty Cycle Correction: -46.0 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
2603.4	H / 1.0	X	39.6	-46.0	-6.4	0.5	1100
	H / 1.0	Y	39.6	-46.0	-6.4	0.5	
	H / 1.0	Z	39.6	-46.0	-6.4	0.5	
	V / 1.0	X	39.6	-46.0	-6.4	0.5	
	V / 1.0	Y	39.6	-46.0	-6.4	0.5	
2603.4	V / 1.0	Z	39.6	-46.0	-6.4	0.5	1100
3037.3	H / 1.0	X	42.1	-46.0	-3.9	0.6	1100
	H / 1.0	Y	42.1	-46.0	-3.9	0.6	
	H / 1.0	Z	42.1	-46.0	-3.9	0.6	
	V / 1.0	X	42.1	-46.0	-3.9	0.6	
	V / 1.0	Y	42.1	-46.0	-3.9	0.6	
3037.3	V / 1.0	Z	42.1	-46.0	-3.9	0.6	1100
3471.2	H / 1.0	X	46.1	-46.0	0.1	1.0	1100
	H / 1.0	Y	46.1	-46.0	0.1	1.0	
	H / 1.0	Z	46.1	-46.0	0.1	1.0	
	V / 1.0	X	46.1	-46.0	0.1	1.0	
	V / 1.0	Y	46.1	-46.0	0.1	1.0	
3471.2	V / 1.0	Z	46.1	-46.0	0.1	1.0	1100
3905.1	H / 1.0	X	47.9	-46.0	1.9	1.2	500
	H / 1.0	Y	47.9	-46.0	1.9	1.2	
	H / 1.0	Z	47.9	-46.0	1.9	1.2	
	V / 1.0	X	47.9	-46.0	1.9	1.2	
	V / 1.0	Y	47.9	-46.0	1.9	1.2	
3905.1	V / 1.0	Z	47.9	-46.0	1.9	1.2	500
4339.2	H / 1.0	X	48.8	-46.0	2.8	1.4	500
	H / 1.0	Y	48.8	-46.0	2.8	1.4	
	H / 1.0	Z	48.8	-46.0	2.8	1.4	
	V / 1.0	X	48.8	-46.0	2.8	1.4	
	V / 1.0	Y	48.8	-46.0	2.8	1.4	
4339.2	V / 1.0	Z	48.8	-46.0	2.8	1.4	500
	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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