

<b>Test Method:</b>	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
<b>Customer:</b>	Quantum Industries				<b>Job No.</b>	R-8568-1	
<b>Test Sample:</b>	433.92MHz AM Pulsed Transmitter				<b>Paragraph:</b>	15.231	
<b>Model No.:</b>	FW10				<b>FCC ID:</b>	CEXFW10	
<b>Operating Mode:</b>	Continuously Transmitting a 433.92MHz Signal						
<b>Technician:</b>	Peter Lananna				<b>Date:</b>	June 2, 2000	
<b>Notes:</b>	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 / 1.0	X	88.0	-2.2	85.8	19498.4	110000
	H / 1.0	Y	92.9	-2.2	90.7	34276.8	
	H / 1.0	Z	89.6	-2.2	87.4	23442.3	
	V / 1.0	X	91.6	-2.2	89.4	29512.1	
	V / 2.0	Y	93.9	-2.2	91.7	38459.2	
433.9	V / 2.0	Z	90.7	-2.2	88.5	26607.3	110000
867.8	H / 1.0	X	47.9	6.1	54.0	501.2	11000
	H / 1.0	Y	40.0	6.1	46.1	201.8*	
	H / 1.0	Z	47.3	6.1	53.4	467.7	
	V / 1.5	X	51.5	6.1	57.6	758.6	
	V / 1.0	Y	40.0	6.1	46.1	201.8*	
867.8	V / 1.5	Z	50.9	6.1	57.0	707.9	11000
1301.7	H / 1.0	X	48.8	-5.3	43.5	149.6	500
	H / 1.0	Y	51.1	-5.3	45.8	195.0	
	H / 1.0	Z	53.7	-5.3	48.4	263.0	
	V / 2.0	X	51.1	-5.3	45.8	195.0	
	V / 1.5	Y	47.9	-5.3	42.6	134.9	
1301.7	V / 1.5	Z	48.8	-5.3	43.5	149.6	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)							



**Retlif Testing Laboratories**

Retlif Job Number R-8568-1

<b>Test Method:</b>	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
<b>Customer:</b>	Quantum Industries	<b>Job No.:</b>	R-8568-1				
<b>Test Sample:</b>	433.92MHz AM Pulsed Transmitter	<b>Paragraph:</b>	15.231				
<b>Model No.:</b>	FW10	<b>FCC ID:</b>	CEXFW10				
<b>Operating Mode:</b>	Continuously Transmitting a 433.92MHz Signal						
<b>Technician:</b>	Peter Lananna	<b>Date:</b>	June 2, 2000				
<b>Notes:</b>	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.							
*=Noise Floor Measurements (Minimum system sensitivity)							



**Retlif Testing Laboratories**

Retlif Job Number R-8568-1

<b>Test Method:</b>	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
<b>Customer:</b>	Quantum Industries	<b>Job No.:</b>	R-8568-1				
<b>Test Sample:</b>	433.92MHz AM Pulsed Transmitter	<b>Paragraph:</b>	15.231				
<b>Model No.:</b>	FW10	<b>FCC ID:</b>	CEXFW10				
<b>Operating Mode:</b>	Continuously Transmitting a 433.92MHz Signal						
<b>Technician:</b>	Peter Lananna	<b>Date:</b>	June 2, 2000				
<b>Notes:</b>	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	85.8	-46.0	39.8	97.7	11000
	H / 1.0	Y	90.7	-46.0	44.7	171.8	
	H / 1.0	Z	87.4	-46.0	41.4	117.5	
	V / 1.0	X	89.4	-46.0	43.4	147.9	
	V / 2.0	Y	91.7	-46.0	45.7	192.8	
433.9	V / 2.0	Z	88.5	-46.0	42.5	133.4	11000
867.8	H / 1.0	X	54.0	-46.0	8.0	2.5	1100
	H / 1.0	Y	46.1	-46.0	0.1	1.0*	
	H / 1.0	Z	53.4	-46.0	7.4	2.3	
	V / 1.5	X	57.6	-46.0	11.6	3.8	
	V / 1.0	Y	46.1	-46.0	0.1	1.0*	
867.8	V / 1.5	Z	57.0	-46.0	11.0	3.5	1100
1301.7	H / 1.0	X	43.5	-46.0	-2.5	0.7	500
	H / 1.0	Y	45.8	-46.0	-0.2	1.0	
	H / 1.0	Z	48.4	-46.0	2.4	1.3	
	V / 2.0	X	45.8	-46.0	-0.2	1.0	
	V / 1.5	Y	42.6	-46.0	-3.4	0.7	
1301.7	V / 1.5	Z	43.5	-46.0	-2.5	0.7	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.							
*=Noise Floor Measurements (Minimum system sensitivity)							



**Retlif Testing Laboratories**

Retlif Job Number R-8568-1

<b>Test Method:</b>	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
<b>Customer:</b>	Quantum Industries	<b>Job No.:</b>	R-8568-1				
<b>Test Sample:</b>	433.92MHz AM Pulsed Transmitter	<b>Paragraph:</b>	15.231				
<b>Model No.:</b>	FW10	<b>FCC ID:</b>	CEXFW10				
<b>Operating Mode:</b>	Continuously Transmitting a 433.92MHz Signal						
<b>Technician:</b>	Peter Lananna	<b>Date:</b>	June 2, 2000				
<b>Notes:</b>	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.							
* = Noise Floor Measurements (Minimum system sensitivity)							



**Retlif Testing Laboratories**

Retlif Job Number R-8568-1