

Test Method:	FCC Part 15 Subpart C Radiated Emissions Paragraph 15.231						
Customer:	Beyerdynamic	Job No.	R-8170-2A				
Test Sample:	Control Unit						
Model No.:	MCW100	Serial No.	N/A				
Operating Mode:	Continuously Transmitter 433 Mhz Signal						
Technician:	Dennis Cortes	Date:	October 19, 1999				
Notes:	Test Distance: 3 Meters	Temp:16C	Humidity:25%				
	Detector: Peak						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
433.9	H / 1.0	X	77.0	-1.6	75.4	5888.4	110000
433.9	H / 1.0	Y	81.8	-1.6	80.2	10232.9	110000
433.9	H / 1.0	Z	79.8	-1.6	78.2	8128.3	110000
433.9	V / 1.0	X	79.1	-1.6	77.5	7498.9	110000
433.9	V / 1.0	Y	80.0	-1.6	78.4	8317.6	110000
433.9	V / 1.0	Z	81.6	-1.6	80.0	10000.0	110000
867.8	H / 1.0	X	29.5	6.1	35.6	60.3	11000
867.8	H / 1.0	Y	31.7	6.1	37.8	77.6	11000
867.8	H / 1.0	Z	32.0	6.1	38.1	80.4	11000
867.8	V / 1.1	X	31.0	6.1	37.1	71.6	11000
867.8	V / 1.0	Y	31.3	6.1	37.4	74.1	11000
867.8	V / 1.0	Z	31.1	6.1	37.2	72.4	11000
1301.7	H / 1.0	X	44.7	-5.5	39.2	91.2	5000
1301.7	H / 1.0	Y	45.0	-5.5	39.5	94.4	5000
1301.7	H / 1.0	Z	46.2	-5.5	40.7	108.4	5000
1301.7	V / 1.1	X	48.2	-5.5	42.7	136.5	5000
1301.7	V / 1.0	Y	47.4	-5.5	41.9	124.5	5000
1301.7	V / 1.0	Z	47.0	-5.5	41.5	118.9	5000
1735.6	H / 1.1	X	45.6	-3.7	41.9	124.5	11000
1735.6	H / 1.0	Y	45.2	-3.7	41.5	118.9	11000
1735.6	H / 1.0	Z	45.0	-3.7	41.3	116.1	11000
1735.6	V / 1.0	X	49.1	-3.7	45.4	186.2	11000
1735.6	V / 1.0	Y	46.5	-3.7	42.8	138.0	11000
1735.6	V / 1.0	Z	47.5	-3.7	43.8	154.9	11000
2169.5	H / 1.0	X	48.7	-1.6	47.1	226.5	11000
2169.5	H / 1.0	Y	50.2	-1.6	48.6	269.2	11000
2169.5	H / 1.0	Z	48.6	-1.6	47.0	223.9	11000
2169.5	V / 1.4	X	50.7	-1.6	49.1	285.1	11000
2169.5	V / 1.2	Y	52.0	-1.6	50.4	331.1	11000
2169.5	V / 1.5	Z	48.8	-1.6	47.2	229.1	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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Technician:	Dennis Cortes				Date:	October 19, 1999	
Notes:	Test Distance: 3 Meters		Temp:16C		Humidity:25%		
	Detector: Quasi-Peak						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	UV/m	uV/m
2603.4	H / 1.0	X	45.6	0.2	45.8	195.0	11000
2603.4	H / 1.4	Y	47.2	0.2	47.4	234.4	11000
2603.4	H / 1.2	Z	47.0	0.2	47.2	229.1	11000
2603.4	V / 1.0	X	49.0	0.2	49.2	288.4	11000
2603.4	V / 1.0	Y	49.1	0.2	49.3	291.7	11000
2603.4	V / 1.2	Z	46.8	0.2	47.0	223.9	11000
3037.3	H / 1.0	X	41.2	2.5	43.7	*153.1	11000
3037.3	H / 1.0	Y	41.2	2.5	43.7	*153.1	11000
3037.3	H / 1.0	Z	41.2	2.5	43.7	*153.1	11000
3037.3	V / 1.0	X	41.2	2.5	43.7	*153.1	11000
3037.3	V / 1.0	Y	41.2	2.5	43.7	*153.1	11000
3037.3	V / 1.0	Z	41.2	2.5	43.7	*153.1	11000
3471.1	H / 1.0	X	40.0	5.1	45.1	*179.9	11000
3471.1	H / 1.0	Y	40.0	5.1	45.1	*179.9	11000
3471.1	H / 1.0	Z	40.0	5.1	45.1	*179.9	11000
3471.1	V / 1.0	X	40.0	5.1	45.1	*179.9	11000
3471.1	V / 1.0	Y	40.0	5.1	45.1	*179.9	11000
3471.1	V / 1.0	Z	40.0	5.1	45.1	*179.9	11000
3904.9	H / 1.0	X	39.8	7.4	47.2	*229.1	5000
3904.9	H / 1.0	Y	39.8	7.4	47.2	*229.1	5000
3904.9	H / 1.0	Z	39.8	7.4	47.2	*229.1	5000
3904.9	V / 1.0	X	39.8	7.4	47.2	*229.1	5000
3904.9	V / 1.0	Y	39.8	7.4	47.2	*229.1	5000
3904.9	V / 1.0	Z	39.8	7.4	47.2	*229.1	5000
4338.8	H / 1.0	X	42.2	11.3	53.5	*473.2	5000
4338.8	H / 1.0	Y	42.2	11.3	53.5	*473.2	5000
4338.8	H / 1.0	Z	42.2	11.3	53.5	*473.2	5000
4338.8	V / 1.0	X	42.2	11.3	53.5	*473.2	5000
4338.8	V / 1.0	Y	42.2	11.3	53.5	*473.2	5000
4338.8	V / 1.0	Z	42.2	11.3	53.5	*473.2	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.						
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Operating Mode:	Continuously Transmitter 433 Mhz Signal						
Technician:	Dennis Cortes	Date:	October 19, 1999				
Notes:	Test Distance: 3 Meters		Duty Cycle: 50%				
	Detector: Peak		Duty Cycle Correction: -6dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
433.9	H / 1.0	X	75.4	-6.0	69.4	2951.2	11000
433.9	H / 1.0	Y	80.2	-6.0	74.2	5128.6	11000
433.9	H / 1.0	Z	78.2	-6.0	72.2	4073.8	11000
433.9	V / 1.0	X	77.5	-6.0	71.5	3758.4	11000
433.9	V / 1.0	Y	78.4	-6.0	72.4	4168.7	11000
433.9	V / 1.0	Z	80.0	-6.0	74.0	5011.9	11000
867.8	H / 1.0	X	35.6	-6.0	29.6	30.2	1100
867.8	H / 1.0	Y	37.8	-6.0	31.8	38.9	1100
867.8	H / 1.0	Z	38.1	-6.0	32.1	40.3	1100
867.8	V / 1.1	X	37.1	-6.0	31.1	35.9	1100
867.8	V / 1.0	Y	37.4	-6.0	31.4	37.2	1100
867.8	V / 1.0	Z	37.2	-6.0	31.2	36.3	1100
1301.7	H / 1.0	X	39.2	-6.0	33.2	45.7	500
1301.7	H / 1.0	Y	39.5	-6.0	33.5	47.3	500
1301.7	H / 1.0	Z	40.7	-6.0	34.7	54.3	500
1301.7	V / 1.1	X	42.7	-6.0	36.7	68.4	500
1301.7	V / 1.0	Y	41.9	-6.0	35.9	62.4	500
1301.7	V / 1.0	Z	41.5	-6.0	35.5	59.6	500
1735.6	H / 1.1	X	41.9	-6.0	35.9	62.4	1100
1735.6	H / 1.0	Y	41.5	-6.0	35.5	59.6	1100
1735.6	H / 1.0	Z	41.3	-6.0	35.3	58.2	1100
1735.6	V / 1.0	X	45.4	-6.0	39.4	93.3	1100
1735.6	V / 1.0	Y	42.8	-6.0	36.8	69.2	1100
1735.6	V / 1.0	Z	43.8	-6.0	37.8	77.6	1100
2169.5	H / 1.0	X	47.1	-6.0	41.1	113.5	1100
2169.5	H / 1.0	Y	48.6	-6.0	42.6	134.9	1100
2169.5	H / 1.0	Z	47.0	-6.0	41.0	112.2	1100
2169.5	V / 1.4	X	49.1	-6.0	43.1	142.9	1100
2169.5	V / 1.2	Y	50.4	-6.0	44.4	166.0	1100
2169.5	V / 1.5	Z	47.2	-6.0	41.2	114.8	1100
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Notes:	Test Distance: 3 Meters		Duty Cycle: 50%				
	Detector: Quasi-Peak		Duty Cycle Correction: -6 dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	UV/m	uV/m
2603.4	H / 1.0	X	45.8	-6.0	39.8	97.7	1100
2603.4	H / 1.4	Y	47.4	-6.0	41.4	117.5	1100
2603.4	H / 1.2	Z	47.2	-6.0	41.2	114.8	1100
2603.4	V / 1.0	X	49.2	-6.0	43.2	144.5	1100
2603.4	V / 1.0	Y	49.3	-6.0	43.3	146.2	1100
2603.4	V / 1.2	Z	47.0	-6.0	41.0	112.2	1100
3037.3	H / 1.0	X	43.7	-6.0	37.7	*76.7	1100
3037.3	H / 1.0	Y	43.7	-6.0	37.7	*76.7	1100
3037.3	H / 1.0	Z	43.7	-6.0	37.7	*76.7	1100
3037.3	V / 1.0	X	43.7	-6.0	37.7	*76.7	1100
3037.3	V / 1.0	Y	43.7	-6.0	37.7	*76.7	1100
3037.3	V / 1.0	Z	43.7	-6.0	37.7	*76.7	1100
3471.1	H / 1.0	X	45.1	-6.0	39.1	*90.2	1100
3471.1	H / 1.0	Y	45.1	-6.0	39.1	*90.2	1100
3471.1	H / 1.0	Z	45.1	-6.0	39.1	*90.2	1100
3471.1	V / 1.0	X	45.1	-6.0	39.1	*90.2	1100
3471.1	V / 1.0	Y	45.1	-6.0	39.1	*90.2	1100
3471.1	V / 1.0	Z	45.1	-6.0	39.1	*90.2	1100
3904.9	H / 1.0	X	47.2	-6.0	41.2	*114.8	500
3904.9	H / 1.0	Y	47.2	-6.0	41.2	*114.8	500
3904.9	H / 1.0	Z	47.2	-6.0	41.2	*114.8	500
3904.9	V / 1.0	X	47.2	-6.0	41.2	*114.8	500
3904.9	V / 1.0	Y	47.2	-6.0	41.2	*114.8	500
3904.9	V / 1.0	Z	47.2	-6.0	41.2	*114.8	500
4338.8	H / 1.0	X	53.5	-6.0	47.5	*237.1	500
4338.8	H / 1.0	Y	53.5	-6.0	47.5	*237.1	500
4338.8	H / 1.0	Z	53.5	-6.0	47.5	*237.1	500
4338.8	V / 1.0	X	53.5	-6.0	47.5	*237.1	500
4338.8	V / 1.0	Y	53.5	-6.0	47.5	*237.1	500
4338.8	V / 1.0	Z	53.5	-6.0	47.5	*237.1	500
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