

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions					
Customer:		X-10 (USA)			Job No.		R-8468-1
Test Sample:		2.4GHZ Transceiver (Ch. 1)			Paragraph:		15.209(a)
Model No.:		VT32A			FCC ID:		B4SVT32A
Operating Mode:		Continuously Transmitting a 2.4GHz Signal					
Technician:		P. Lananna			Date:		March 28, 2000
Notes:		Test Distance: 3 Meters					
Ch.1		Detector: Peak, Unless otherwise specified					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2.476	H / 1.5	X	79.0	-11.5	67.5	2371.4	50000
	H / 1.5	Y	76.8	-11.5	65.3	1840.8	
	H / 1.0	Z	79.5	-11.5	68.0	2511.9	
	V / 1.0	X	79.7	-11.5	68.2	2570.4	
	V / 1.3	Y	77.4	-11.5	65.9	1972.4	
2.476	V / 1.3	Z	75.6	-11.5	64.1	1603.2	50000
4.952	H / 1.0	X	35.0	-11.0	24.0	1.2*	500
	H / 1.0	Y	35.0	-11.0	24.0	1.2*	
	H / 1.0	Z	35.0	-11.0	24.0	1.2*	
	V / 1.0	X	35.0	-11.0	24.0	1.2*	
	V / 1.0	Y	35.0	-11.0	24.0	1.2*	
4.952	V / 1.0	Z	35.0	-11.0	24.0	1.2*	500
7.428	H / 1.0	X	34.2	-4.8	29.4	29.5*	500
	H / 1.0	Y	34.2	-4.8	29.4	29.5*	
	H / 1.0	Z	34.2	-4.8	29.4	29.5*	
	V / 1.0	X	34.2	-4.8	29.4	29.5*	
	V / 1.0	Y	34.2	-4.8	29.4	29.5*	
7.428	V / 1.0	Z	34.2	-4.8	29.4	29.5*	500
9.904	H / 1.0	X	32.9	-7.7	25.2	18.2*	500
	H / 1.0	Y	32.9	-7.7	25.2	18.2*	
	H / 1.0	Z	32.9	-7.7	25.2	18.2*	
	V / 1.0	X	32.9	-7.7	25.2	18.2*	
	V / 1.0	Y	32.9	-7.7	25.2	18.2*	
9.904	V / 1.0	Z	32.9	-7.7	25.2	18.2*	500
12.38	H / 1.0	X	30.9	-2.7	28.2	25.7*	500
	H / 1.0	Y	30.9	-2.7	28.2	25.7*	
	H / 1.0	Z	30.9	-2.7	28.2	25.7*	
	V / 1.0	X	30.9	-2.7	28.2	25.7*	
	V / 1.0	Y	30.9	-2.7	28.2	25.7*	
12.38	V / 1.0	Z	30.9	-2.7	28.2	25.7*	500
	The frequency range was scanned from 30 MHz to 25 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 Sample:		2.4GHZ Transceiver (Ch. 1)			Paragraph:		15.209(a)	
Model No.:		VT32A			FCC ID:		B4SVT32A	
Operating Mode:		Continuously Transmitting a 2.4GHz Signal						
Technician:		P. Lananna			Date:		March 28, 2000	
Notes:		Test Distance: 3 Meters, **= Readings taken @ 1 meter correction factor includes test distance correction						
Ch.1		Detector: Peak, unless otherwise specified						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit	
GHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m	
14.86	H / 1.0	X	35.0	-6.1	28.9	27.9*	500	
	H / 1.0	Y	35.0	-6.1	28.9	27.9*		
	H / 1.0	Z	35.0	-6.1	28.9	27.9*		
	V / 1.0	X	35.0	-6.1	28.9	27.9*		
	V / 1.0	Y	35.0	-6.1	28.9	27.9*		
14.86	V / 1.0	Z	35.0	-6.1	28.9	27.9*	500	
17.33	H / 1.0	X	35.2	-10.1	25.1	18.0*	500	
	H / 1.0	Y	35.2	-10.1	25.1	18.0*		
	H / 1.0	Z	35.2	-10.1	25.1	18.0*		
	V / 1.0	X	35.2	-10.1	25.1	18.0*		
	V / 1.0	Y	35.2	-10.1	25.1	18.0*		
17.33	V / 1.0	Z	35.2	-10.1	25.1	18.0*	500	
19.80	H / 1.0	X	29.0	22.9**	51.9	393.6*	500	
	H / 1.0	Y	29.0	22.9**	51.9	393.6*		
	H / 1.0	Z	29.0	22.9**	51.9	393.6*		
	V / 1.0	X	29.0	22.9**	51.9	393.6*		
	V / 1.0	Y	29.0	22.9**	51.9	393.6*		
19.80	V / 1.0	Z	29.0	22.9**	51.9	393.6*	500	
22.28	H / 1.0	X	26.0	23.2**	49.2	288.4*	500	
	H / 1.0	Y	26.0	23.2**	49.2	288.4*		
	H / 1.0	Z	26.0	23.2**	49.2	288.4*		
	V / 1.0	X	26.0	23.2**	49.2	288.4*		
	V / 1.0	Y	26.0	23.2**	49.2	288.4*		
22.28	V / 1.0	Z	26.0	23.2**	49.2	288.4*	500	
24.76	H / 1.0	X	25.0	23.4**	48.4	263.0*	500	
	H / 1.0	Y	25.0	23.4**	48.4	263.0*		
	H / 1.0	Z	25.0	23.4**	48.4	263.0*		
	V / 1.0	X	25.0	23.4**	48.4	263.0*		
	V / 1.0	Y	25.0	23.4**	48.4	263.0*		
24.76	V / 1.0	Z	25.0	23.4**	48.4	263.0*	500	
	The frequency range was scanned from 30 MHz to 25 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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Retlif Job Number R-8468-1

Test Method:		FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions					
Customer:		X-10 (USA)			Job No.		R-8468-1
Test Sample:		2.4GHZ Transceiver (Ch. 2)			Paragraph:		15.209(a)
Model No.:		VT32A			FCC ID:		B4SVT32A
Operating Mode:		Continuously Transmitting a 2.4GHz Signal					
Technician:		P. Lananna			Date:		March 28, 2000
Notes:		Test Distance: 3 Meters					
Ch.2		Detector: Peak, Unless otherwise specified					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2.456	H / 1.0	X	82.0	-11.5	70.5	3349.7	50000
	H / 1.3	Y	80.2	-11.5	68.7	2722.7	
	H / 1.3	Z	79.8	-11.5	68.3	2600.2	
	V / 1.0	X	79.5	-11.5	68	2511.9	
	V / 1.3	Y	80.1	-11.5	68.6	2691.5	
2.456	V / 1.3	Z	75.7	-11.5	64.2	1621.8	50000
4.912	H / 1.0	X	35.0	-11.0	24.0	1.2*	500
	H / 1.0	Y	35.0	-11.0	24.0	1.2*	
	H / 1.0	Z	35.0	-11.0	24.0	1.2*	
	V / 1.0	X	35.0	-11.0	24.0	1.2*	
	V / 1.0	Y	35.0	-11.0	24.0	1.2*	
4.912	V / 1.0	Z	35.0	-11.0	24.0	1.2*	500
7.368	H / 1.0	X	34.2	-4.8	29.4	29.5*	500
	H / 1.0	Y	34.2	-4.8	29.4	29.5*	
	H / 1.0	Z	34.2	-4.8	29.4	29.5*	
	V / 1.0	X	34.2	-4.8	29.4	29.5*	
	V / 1.0	Y	34.2	-4.8	29.4	29.5*	
7.368	V / 1.0	Z	34.2	-4.8	29.4	29.5*	500
9.824	H / 1.0	X	32.9	-7.7	25.2	18.2*	500
	H / 1.0	Y	32.9	-7.7	25.2	18.2*	
	H / 1.0	Z	32.9	-7.7	25.2	18.2*	
	V / 1.0	X	32.9	-7.7	25.2	18.2*	
	V / 1.0	Y	32.9	-7.7	25.2	18.2*	
9.824	V / 1.0	Z	32.9	-7.7	25.2	18.2*	500
12.28	H / 1.0	X	30.9	-2.7	28.2	25.7*	500
	H / 1.0	Y	30.9	-2.7	28.2	25.7*	
	H / 1.0	Z	30.9	-2.7	28.2	25.7*	
	V / 1.0	X	30.9	-2.7	28.2	25.7*	
	V / 1.0	Y	30.9	-2.7	28.2	25.7*	
12.28	V / 1.0	Z	30.9	-2.7	28.2	25.7*	500
	The frequency range was scanned from 30 MHz to 25 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 Sample:		2.4GHZ Transceiver (Ch. 2)			Paragraph:		15.209(a)	
Model No.:		VT32A			FCC ID:		B4SVT32A	
Operating Mode:		Continuously Transmitting a 2.4GHz Signal						
Technician:		P. Lananna			Date:		March 28, 2000	
Notes:		Test Distance: 3 Meters**= Readings taken @ 1 meter correction factor includes test distance correction						
Ch2		Detector: Peak, unless otherwise specified						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit	
GHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m	
14.74	H / 1.0	X	35.0	-6.1	28.9	27.9*	500	
	H / 1.0	Y	35.0	-6.1	28.9	27.9*		
	H / 1.0	Z	35.0	-6.1	28.9	27.9*		
	V / 1.0	X	35.0	-6.1	28.9	27.9*		
	V / 1.0	Y	35.0	-6.1	28.9	27.9*		
14.74	V / 1.0	Z	35.0	-6.1	28.9	27.9*	500	
17.19	H / 1.0	X	35.2	-10.1	25.1	18.0*	500	
	H / 1.0	Y	35.2	-10.1	25.1	18.0*		
	H / 1.0	Z	35.2	-10.1	25.1	18.0*		
	V / 1.0	X	35.2	-10.1	25.1	18.0*		
	V / 1.0	Y	35.2	-10.1	25.1	18.0*		
17.19	V / 1.0	Z	35.2	-10.1	25.1	18.0*	500	
19.65	H / 1.0	X	29.0	22.9**	51.9	393.6*	500	
	H / 1.0	Y	29.0	22.9**	51.9	393.6*		
	H / 1.0	Z	29.0	22.9**	51.9	393.6*		
	V / 1.0	X	29.0	22.9**	51.9	393.6*		
	V / 1.0	Y	29.0	22.9**	51.9	393.6*		
19.65	V / 1.0	Z	29.0	22.9**	51.9	393.6*	500	
22.10	H / 1.0	X	26.0	23.2**	49.2	288.4*	500	
	H / 1.0	Y	26.0	23.2**	49.2	288.4*		
	H / 1.0	Z	26.0	23.2**	49.2	288.4*		
	V / 1.0	X	26.0	23.2**	49.2	288.4*		
	V / 1.0	Y	26.0	23.2**	49.2	288.4*		
22.10	V / 1.0	Z	26.0	23.2**	49.2	288.4*	500	
24.56	H / 1.0	X	25.0	23.4**	48.4	263.0*	500	
	H / 1.0	Y	25.0	23.4**	48.4	263.0*		
	H / 1.0	Z	25.0	23.4**	48.4	263.0*		
	V / 1.0	X	25.0	23.4**	48.4	263.0*		
	V / 1.0	Y	25.0	23.4**	48.4	263.0*		
24.56	V / 1.0	Z	25.0	23.4**	48.4	263.0*	500	
	The frequency range was scanned from 30 MHz to 25 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-8468-1

Test Method:	FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions						
Customer:	X-10 (USA)				Job No.	R-8468-1	
Test Sample:	2.4GHZ Transceiver (Ch.4)				Paragraph:	15.209(a)	
Model No.:	VT32A				FCC ID:	B4SVT32A	
Operating Mode:	Continuously Transmitting a 2.4GHz Signal						
Technician:	P. Lananna				Date:	March 28, 2000	
Notes:	Test Distance: 3 Meters						
Ch4	Detector: Peak, Unless otherwise specified						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
GHz	(V/H)/Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
2.413	H / 1.5	X	79.3	-11.5	67.8	2454.7	50000
	H / 1.0	Y	72.9	-11.5	61.4	1174.9	
	H / 1.0	Z	78.4	-11.5	66.9	2213.1	
	V / 1.0	X	72.7	-11.5	61.2	1148.2	
	V / 1.3	Y	80.4	-11.5	68.9	2786.1	
2.413	V / 1.3	Z	68.9	-11.5	57.4	741.3	50000
4.826	H / 1.0	X	35.0	-11.0	24.0	1.2*	500
	H / 1.0	Y	35.0	-11.0	24.0	1.2*	
	H / 1.0	Z	35.0	-11.0	24.0	1.2*	
	V / 1.0	X	35.0	-11.0	24.0	1.2*	
	V / 1.0	Y	35.0	-11.0	24.0	1.2*	
4.826	V / 1.0	Z	35.0	-11.0	24.0	1.2*	500
7.239	H / 1.0	X	34.2	-4.8	29.4	29.5*	500
	H / 1.0	Y	34.2	-4.8	29.4	29.5*	
	H / 1.0	Z	34.2	-4.8	29.4	29.5*	
	V / 1.0	X	34.2	-4.8	29.4	29.5*	
	V / 1.0	Y	34.2	-4.8	29.4	29.5*	
7.239	V / 1.0	Z	34.2	-4.8	29.4	29.5*	500
9.652	H / 1.0	X	32.9	-7.7	25.2	18.2*	500
	H / 1.0	Y	32.9	-7.7	25.2	18.2*	
	H / 1.0	Z	32.9	-7.7	25.2	18.2*	
	V / 1.0	X	32.9	-7.7	25.2	18.2*	
	V / 1.0	Y	32.9	-7.7	25.2	18.2*	
9.652	V / 1.0	Z	32.9	-7.7	25.2	18.2*	500
12.07	H / 1.0	X	30.9	-2.7	28.2	25.7*	500
	H / 1.0	Y	30.9	-2.7	28.2	25.7*	
	H / 1.0	Z	30.9	-2.7	28.2	25.7*	
	V / 1.0	X	30.9	-2.7	28.2	25.7*	
	V / 1.0	Y	30.9	-2.7	28.2	25.7*	
12.07	V / 1.0	Z	30.9	-2.7	28.2	25.7*	500
	The frequency range was scanned from 30 MHz to 25 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 Sample:		2.4GHZ Transceiver (Ch.4)			Paragraph:		15.209(a)
Model No.:		VT32A			FCC ID:		B4SVT32A
Operating Mode:		Continuously Transmitting a 2.4GHz Signal					
Technician:		P. Lananna			Date:		March 28, 2000
Notes:		Test Distance: 3 Meters**= Readings taken @ 1 meter correction factor includes test distance correction					
Ch.4		Detector: Peak, unless otherwise specified					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Avg. Limit
GHz	(V/H)-Meters	X / Y / Z	dBuV	dB	dBuV/m	uV/m	uV/m
14.48	H / 1.0	X	35.0	-6.1	28.9	27.9*	500
	H / 1.0	Y	35.0	-6.1	28.9	27.9*	
	H / 1.0	Z	35.0	-6.1	28.9	27.9*	
	V / 1.0	X	35.0	-6.1	28.9	27.9*	
	V / 1.0	Y	35.0	-6.1	28.9	27.9*	
14.48	V / 1.0	Z	35.0	-6.1	28.9	27.9*	500
16.89	H / 1.0	X	35.2	-10.1	25.1	18.0*	500
	H / 1.0	Y	35.2	-10.1	25.1	18.0*	
	H / 1.0	Z	35.2	-10.1	25.1	18.0*	
	V / 1.0	X	35.2	-10.1	25.1	18.0*	
	V / 1.0	Y	35.2	-10.1	25.1	18.0*	
16.89	V / 1.0	Z	35.2	-10.1	25.1	18.0*	500
19.30	H / 1.0	X	29.0	22.9**	51.9	393.6*	500
	H / 1.0	Y	29.0	22.9**	51.9	393.6*	
	H / 1.0	Z	29.0	22.9**	51.9	393.6*	
	V / 1.0	X	29.0	22.9**	51.9	393.6*	
	V / 1.0	Y	29.0	22.9**	51.9	393.6*	
19.30	V / 1.0	Z	29.0	22.9**	51.9	393.6*	500
21.72	H / 1.0	X	26.0	23.2**	49.2	288.4*	500
	H / 1.0	Y	26.0	23.2**	49.2	288.4*	
	H / 1.0	Z	26.0	23.2**	49.2	288.4*	
	V / 1.0	X	26.0	23.2**	49.2	288.4*	
	V / 1.0	Y	26.0	23.2**	49.2	288.4*	
21.72	V / 1.0	Z	26.0	23.2**	49.2	288.4*	500
24.13	H / 1.0	X	25.0	23.4**	48.4	263.0*	500
	H / 1.0	Y	25.0	23.4**	48.4	263.0*	
	H / 1.0	Z	25.0	23.4**	48.4	263.0*	
	V / 1.0	X	25.0	23.4**	48.4	263.0*	
	V / 1.0	Y	25.0	23.4**	48.4	263.0*	
24.13	V / 1.0	Z	25.0	23.4**	48.4	263.0*	500
	The frequency range was scanned from 30 MHz to 25 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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