

<u>APPLICANT</u>	<u>MANUFACTURER</u>
X-10 USA, Inc. 19823, 58 th Place S. Kent, WA 98032	X-10 Electronics (Shenzhen) Co. Ltd. Together Rich Industrial Park B Sanwei Industrial District, Xixiang Town Baoan County, Shenzhen, China

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: ANSI C63.4:2003

TEST SAMPLE DESCRIPTION

BRANDNAME: X-10

MODEL: AT15A FCC ID: B4SAT15A

TYPE: 924 MHz (FM) Wireless Transmitter

FREQUENCY RANGE: Channel 1: 924.19 MHz

Channel 2: 924.89 MHz

POWER REQUIREMENTS: 1.2 VDC (1) NiMH Rechargeable Battery

TESTS PERFORMED

- 15.249(a) Radiated Emissions, Fundamental and Harmonics
- 15.249(c) Band Edge Verification
- 15.249(c) Radiated Emissions, Spurious Case

REPORT OF MEASUREMENTS

Applicant: X-10 (USA), Inc.
Device: 924 MHz (FM) Wireless Transmitter
FCC ID: B4SAT15A
Power Requirements: 1.2 VDC (1) NiMH Rechargeable Battery
Applicable Rule Section: Part 15, Subpart C, Section 15.249

TEST RESULTS

- 15.249(a): The unit operates in the 902 to 928 MHz band at 924.19 and 924.89 MHz. The field strength of the fundamental did not exceed 50 mV/M Average. The field strength of the harmonics did not exceed 500 microV/M Average.
- 15.249(b): Field strength readings were taken at three meters unless otherwise noted.
- 15.249(c): Emissions radiated outside band edges were greater than 50 dB below the specified the level of the fundamental or met the general radiated emission requirements of 15.209(a), whichever provided the lesser attenuation.
- 15.249(d): The peak field strength of any emission did not exceed the maximum permitted average field strength by more than 20dB under any condition of modulation.

GENERAL NOTES

1. All measurements were made with a fully charged 1.2 VDC NiMH rechargeable battery installed in the unit.
2. All user accessible controls were adjusted to produce maximum emissions.
3. The device was tested with the following external accessories: I Pod NANO
4. The unit operates at the following frequencies: 924.19 and 924.89 MHz
The unit was tested at the following frequency: 924.19 MHz
5. The frequency range was scanned from 30 MHz to 10 GHz. All emissions not reported were more than 20 dB below the specified limit.

EXHIBIT 4

Radiated Emissions, Fundamental & Harmonics

Para. 15.249(a)

Test Method:	FCC Part 15, Subpart C, Radiated Emissions, Fundamental & Harmonic Emissions 15.249(a)						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-11282-3	
Test Sample:	924.19 MHz Transmitter				Paragraph:	15.249	
Model No.:	AT15A				FCC ID:	B4SAT15A	
Operating Mode:	Continuously Transmitting a 924.17MHz signal, Tuned to channel 1.						
Technician:	R. Soodoo				Date:	January 19, 2006.	
Notes:	Test Distance: 3 Meters Detector: Peak, unless otherwise specified						
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
924.19	V / 2.0	X	69.9	8.8	78.7	8609.9	50000
	V / 2.0	Y	64.3	8.8	73.1	4518.6	
	V / 1.0	Z	64.6	8.8	73.4	4677.4	
	H / 1.0	X	66.2	8.8	75.0	5623.4	
	H / 1.0	Y	60.6	8.8	69.4	2951.2	
924.19	H / 1.0	Z	62.4	8.8	71.2	3630.8	50000
1848.3	V / 1.0	X	50.8	-2.5	48.3	260.0	500
	V / 1.5	Y	45.0	-2.5	42.5	133.4	
	V / 1.4	Z	54.1	-2.5	51.6	380.2	
	H / 1.0	X	46.1	-2.5	43.6	151.2	
	H / 1.25	Y	45.2	-2.5	42.7	136.5	
1848.3	H / 1.5	Z	42.0	-2.5	39.5	94.4	500
2772.5	V / 1.5	X	49.1	-1.2	47.9	248.3	500
	V / 1.5	Y	50.9	-1.2	49.7	305.5	
	V / 1.5	Z	45.2	-1.2	44.0	158.5	
	H / 1.5	X	47.8	-1.2	46.6	213.8	
	H / 1.5	Y	54.2	-1.2	53.0	446.7	
2772.5	H / 2.0	Z	48.0	-1.2	46.8	218.8	500
3696.7	V / 1.0	X	43.6	1.9	45.5	*188.4	500
	V / 1.0	Y	43.6	1.9	45.5	*188.4	
	V / 1.0	Z	46.0	1.9	47.9	248.3	
	H / 1.9	X	45.1	1.9	47.0	223.9	
	H / 2.0	Y	47.3	1.9	49.2	288.4	
3699.7	H / 1.0	Z	43.2	1.9	45.1	*179.9	500
4620.8	V / 1.0	X	44.0	3.8	47.8	*245.5	500
	V / 1.0	Y	44.0	3.8	47.8	*245.5	
	V / 1.0	Z	44.0	3.8	47.8	*245.5	
	H / 1.0	X	43.2	3.8	47.0	*223.9	
	H / 1.0	Y	43.2	3.8	47.0	*223.9	
4620.8	H / 1.0	Z	43.2	3.8	47.0	*223.9	500
	The Frequency Range was scanned from the first to the tenth harmonic. All emissions not reported herein are at least 20 dB below the specified limit.						
	*=Noise Floor Measurements (Minimum system sensitivity)						



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Test Method:	FCC Part 15, Subpart C, Radiated Emissions, Fundamental & Harmonic Emissions 15.249(a)						
Customer:	X-10 Wireless Technology, Inc.				Job No.	R-11282-3	
Test Sample:	924.17 MHz Transmitter				Paragraph:	15.249	
Model No.:	AT15A				FCC ID:	B4SAT15A	
Operating Mode:	Continuously Transmitting a 924.19 MHz signal, Tuned to channel 1.						
Technician:	R. Soodoo				Date:	January 19, 2006.	
Notes:	Test Distance: 3 Meters Detector: Peak, unless otherwise specified						
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
5545.0	V / 1.0	X	42.3	5.4	47.7	*242.7	500
	V / 1.0	Y	42.3	5.4	47.7	*242.7	
	V / 1.0	Z	42.3	5.4	47.7	*242.7	
	H / 1.0	X	39.9	5.4	45.3	*184.1	
	H / 1.0	Y	39.9	5.4	45.3	*184.1	
5545.0	H / 1.0	Z	39.9	5.4	45.3	*184.1	500
6469.3	V / 1.0	X	++33.8	6.0	39.8	*97.7	500
	V /1.0	Y	++33.8	6.0	39.8	*97.7	
	V / 1.0	Z	++33.8	6.0	39.8	*97.7	
	H / 1.0	X	++30.0	6.0	36.0	*63.1	
	H / 1.0	Y	++30.0	6.0	36.0	*63.1	
6469.3	H / 1.0	Z	++30.0	6.0	36.0	*63.1	500
7393.4	V / 1.0	X	++33.8	8.3	42.1	*127.4	500
	V / 1.0	Y	++33.8	8.3	42.1	*127.4	
	V / 1.0	Z	++33.8	8.3	42.1	*127.4	
	H / 1.0	X	++30.0	8.3	38.3	*82.2	
	H / 1.0	Y	++30.0	8.3	38.3	*82.2	
7393.4	H / 1.0	Z	++30.0	8.3	38.3	*82.2	500
8317.6	V / 1.0	X	++33.8	9.4	43.2	*144.5	500
	V / 1.0	Y	++33.8	9.4	43.2	*144.5	
	V / 1.0	Z	++33.8	9.4	43.2	*144.5	
	H / 1.0	X	++31.1	9.4	40.5	*105.9	
	H / 1.0	Y	++31.1	9.4	40.5	*105.9	
8317.6	H / 1.0	Z	++31.1	9.4	40.5	*105.9	500
9241.8	V / 1.0	X	++33.8	11.9	45.7	*192.8	500
	V / 1.0	Y	++33.8	11.9	45.7	*192.8	
	V / 1.0	Z	++33.8	11.9	45.7	*192.8	
	H / 1.0	X	++31.1	11.9	43.0	*141.3	
	H / 1.0	Y	++31.1	11.9	43.0	*141.3	
9241.8	H / 1.0	Z	++31.1	11.9	43.0	*141.3	500
	The Frequency Range was scanned from the first to the tenth harmonic. All emissions not reported herein are at least 20 dB below the specified limit. The EUT complies with the applicable limit.						
	*=Noise Floor Measurements (Minimum system sensitivity)						

++ = 100 kHz RBW used to obtain minimum system Sensitivity



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EXHIBIT 4

Radiated Emissions, Spurious Emissions

Para. 15.249(c)

Test Method:	FCC Part 15, Subpart C, Spurious Case, Radiated Emissions, Paragraph 15.249(c)						
Customer:	X-10 Wireless Technology, Inc				Job No.	R-11282-3	
Test Sample:	924.19 MHz Wireless Transmitter				FCC ID:	15.249 (c)	
Model No.:	AT15A				Serial No.:	B4SAT15A	
Operating Mode:	Continuously Transmitting a 924.19 MHz signal, Tuned to channel 1.						
Technician:	R. Soodoo				Date:	January 19, 2006.	
Notes:	Test Distance: 3 Meters Temp: 20°C Humidity: 21% Detector: Quasi-Peak from 30 MHz to 1 GHz, Peak above 1 GHz						
Frequency	Antenna Position	EUT Orientation	Meter Readings	Correction Factor	Corrected Reading	Converted Reading	LIMIT
MHz	(V/H) / Meters	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30							100
88							100
88							150
		No Emissions Observed at specified test distance					
216							150
216							200
960							200
960							500
10000							500
	The frequency range was scanned from 30 MHz to 10 GHz.						
	The emissions observed from the EUT do not exceed the specified limits.						
	Emissions not recorded were more than 20dB under the specified limit.						

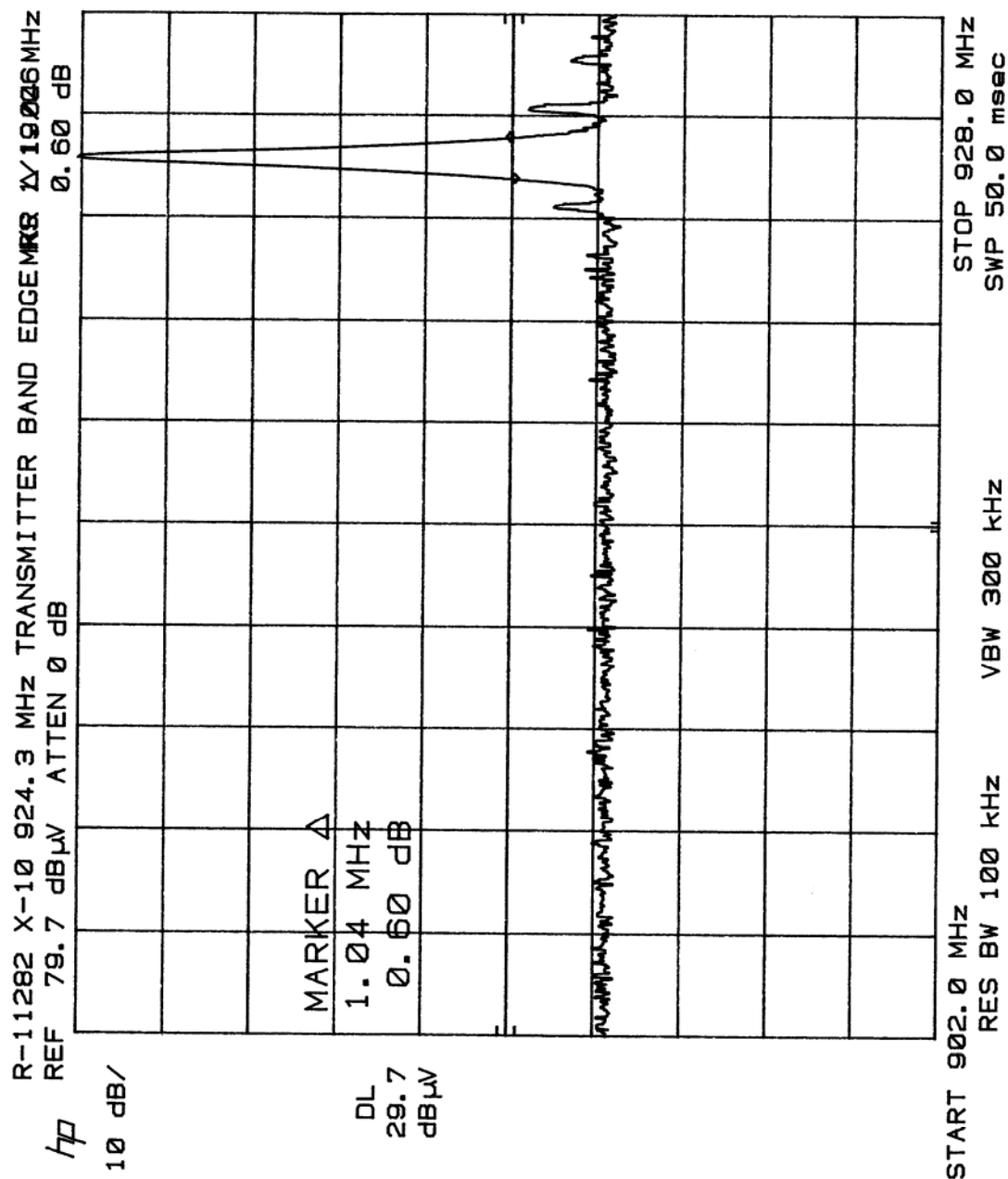
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EXHIBIT 4

Band Edge Verification

Para. 15.249(c)

15A/CH2



Test Method: FCC 15.249 (c) Band Edge verification (902MHz to 928MHz)

Note: Transmitted signal is at least 50dBc at the band edge.

Note: EUT transmitting on channel 1 at 924.19 MHz.

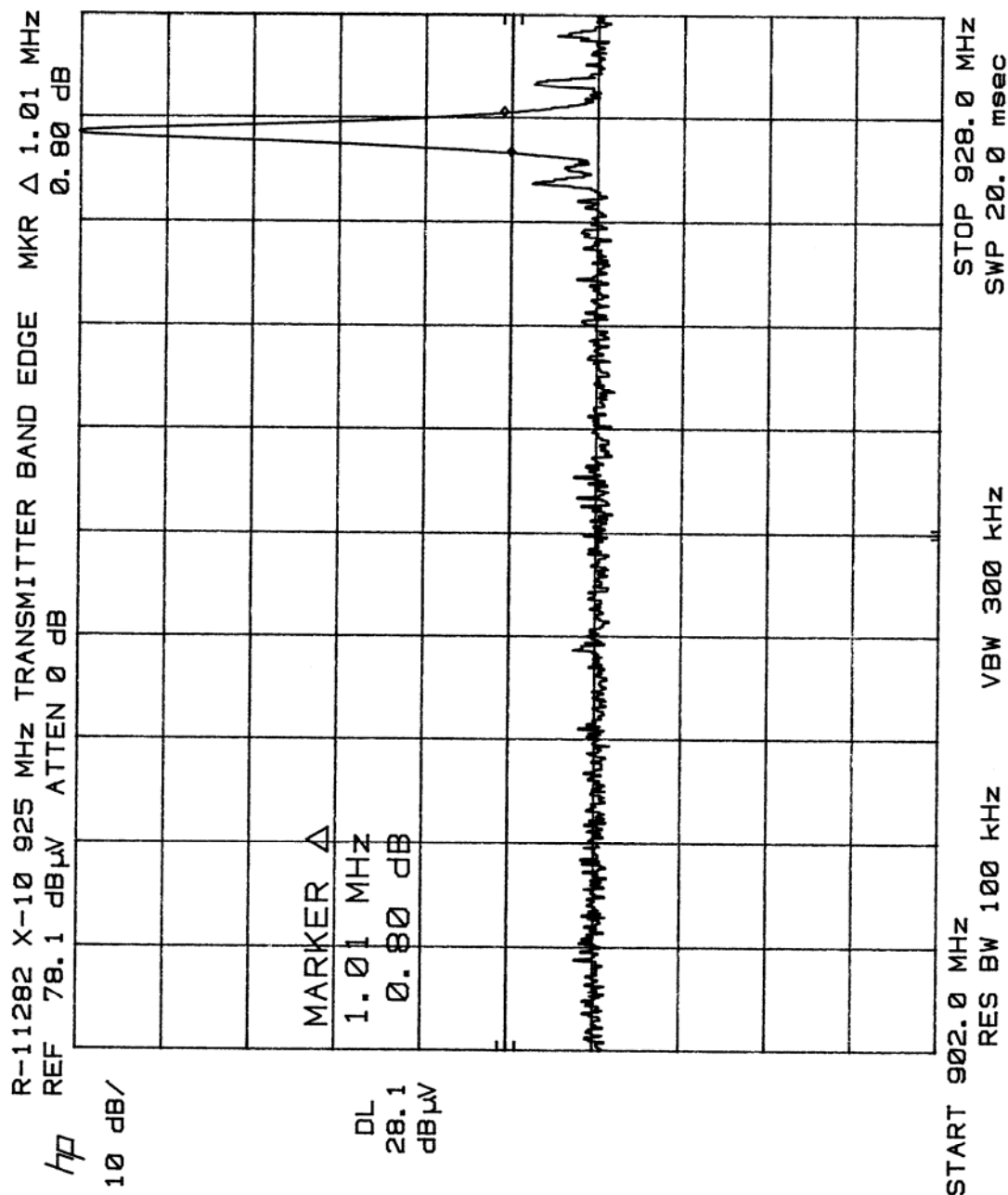
Customer	X-10 Wireless Technology, Inc.		
Test Sample	924.19 MHz Wireless Transmitter		
Model Number	AT15A		
Date: January 19, 2006.	Tech: R. Soodoo	Sheet 1 of 2	



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12A/CHX



Test Method: FCC 15.249 (c) Band Edge verification (902MHz to 928MHz)

Note: Transmitted signal is at least 50dBc at the band edge.

Note: EUT transmitting on channel 2 at 924.89 MHz.

Customer	X-10 Wireless Technology, Inc.		
Test Sample	924.89 MHz Wireless Transmitter		
Model Number	AT15A		
Date: January 19, 2006.	Tech: R. Soodoo	Sheet 2 of 2	



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EQUIPMENT LIST

FCC Part 15, Subpart C, Radiated Emissions, Fundamental and Harmonics

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
128	Double Ridged Guide	Electro-Mechanics	1 GHz - 18 GHz	3105	3/9/2005	3/9/2006
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/9/2005	6/9/2006
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	8/28/2005	2/28/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2005	2/9/2006
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	8/28/2005	2/28/2006
141C	Cable	Retlif	1 GHz ~ 18 GHz	1 METER, BLUE	1/4/2006	1/4/2007
141D	Cable	Retlif	1 GHz ~ 18 GHz	10 METER, BLACK	1/4/2006	1/4/2007
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/9/2005	6/9/2006
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	11/10/2005	11/10/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	2/4/2005	2/4/2006
723	H.P. Filter	Mini-Circuits	1 GHz	BHP-1000	7/20/2005	7/20/2006

EQUIPMENT LIST

FCC Part 15, Subpart C, Spurious Case, Radiated Emissions, Paragraph 15.249 (c)

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
128	Double Ridged Guide	Electro-Mechanics	1 GHz - 18 GHz	3105	3/9/2005	3/9/2006
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/9/2005	6/9/2006
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	8/28/2005	2/28/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2005	2/9/2006
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	8/28/2005	2/28/2006
141C	Cable	Retlif	1 GHz ~ 18 GHz	1 METER, BLUE	1/4/2006	1/4/2007
141D	Cable	Retlif	1 GHz ~ 18 GHz	10 METER, BLACK	1/4/2006	1/4/2007
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/9/2005	6/9/2006
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	11/10/2005	11/10/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	2/4/2005	2/4/2006
723	H.P. Filter	Mini-Circuits	1 GHz	BHP-1000	7/20/2005	7/20/2006

EQUIPMENT LIST

FCC 15.249 Band Edge Verification (902 MHz to 928 MHz)

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	8/28/2005	2/28/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2005	2/9/2006
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	8/28/2005	2/28/2006