

**Electromagnetic Compatibility (EMC) ITE Equipment
For
AMX Corporation, MIO R2 Remote Control Device
FCC I/D Number: CWU-MIOR2
FCC PART 15, SUB-PART B, CLASS B
FCC PART 15.231**

Prepared For: AMX Corporation
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TEST SUMMARY

This test record demonstrates compliance with the following EMC requirements for the MIO R2 Remote Control Device

EMISSIONS
North America Regions: <ul style="list-style-type: none">◆ CFR 47, Part 15, Subpart B, Class B, FCC Emissions◆ CFR 47, Part 15.231 Intentional Radiator 418MHz and 433Mhz

Service For: AMX Corporation
3000 Research Drive
Richardson, TX 75082

Purchase Order No.: 66277

This is to certify that the following report is true and correct to the best of my knowledge.



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REVISIONS

Revision	Reason for Revision	Date
0	Original	April 24, 2006
1	Add additional product information and data per TCB requested	May 12, 2006

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1.0 GENERAL INFORMATION

1.1 Product Description

1.1.1 RF Module Technical Description

DESCRIPTION

The Mio R-2 remote provides custom control features. The Mio R-2 controls 6 different device modes, supports 3 macro functions and is capable of executing 219 functions. The Mio R-2 can transmit in 418 RF (1-way) (**FG147-418**), 433 RF (1-way) (**FG147-433**) one of the RF frequencies.

Selecting a source device sends a command to the master and runs predetermined events associated with that source. Selecting a macro will run predefined events, which might not be associated with sources listed, then return the device to its previous mode.

APPLICATIONS INCLUDE

- Remote Control

THEORY OF OPERATION

The MIO-R2 is a handheld remote control that uses one-way RF to send control commands to an RF receiver. It uses a or TXM-433-LR (433 MHz) / or TXM-418-LR (418MHz) module from Linx Technologies and a spiral PCB trace antenna. Data is sent at a rate of 250 Hz using on-off keying (OOK).

When a button is pressed, the unit begins transmitting frames that are 64 ms in duration. The unit will transmit a minimum of 4 frames if the button is held for less than 256 ms. If the button is held for longer than 256 ms then released, the R2 will finish its current frame before it stops transmitting, so the device should stop transmitting with 64 ms.”

1.1.2 EUT Operational Description

Mio R-2 (FG147-418/433) Specifications	
Battery	4 AAA Alkaline Batteries (5 hours battery life)
Transmission Frequencies	<ul style="list-style-type: none"> • AMX 38 KHz/455 KHz IR • 418 RF (1-way) (FG147-418) • 433 RF (1-way) (FG147-433)
Transmission Range (distance) with Mio IR Receiver	<ul style="list-style-type: none"> • 100 feet at 38KHz (IR) • 50 feet at 455KHz (IR) • 300 feet at 418 (RF) • 200 feet at 433 (RF)
Transmission Range (angle)	<ul style="list-style-type: none"> • 140 degrees (+/-70° from perpendicular) horizontally from an axis extending from the end of the remote. (IR) • 40 degrees (+/-20° from perpendicular) vertically from an axis extending from the end of the remote. (IR)
Top Components	<ul style="list-style-type: none"> • LED - blue backlit buttons indicate device is awake • Display (OLED) - 128 x 32 pixels, active area is 29.42mm x 7.99mm • Pushbuttons - the power button is red backlit; the rest are blue backlit buttons. 45 buttons; 9 custom buttons (3 macro and 6 device).
Rear Component	<ul style="list-style-type: none"> • Programming Port - 2.5 mm stereo female conductor jack • Battery Door • Rechargeable Battery Connection

Mio R-2 (FG147-418/433) Specifications (Cont.)	
Dimensions (HWD)	9.50 x 2.00 x .74 (241.3 mm x 50.8 mm x 18.80 mm)
Supported Languages:	<ul style="list-style-type: none"> • Arabic • English • French • German • Greek • Hebrew • Hindi • Italian • Japanese • Korean • Mandarin Chinese • Portuguese • Russian • Spanish • Thai
Weight	<ul style="list-style-type: none"> • .45 lbs (20 g) without batteries • .55 lbs (25 g) with batteries
Operating Environment:	<ul style="list-style-type: none"> • Operating Temperature: 0° to 50° C (32° to 122° F) • Storage Temperature: -10° to 70° C (14° to 158° F)
Other AMX Equipment	<ul style="list-style-type: none"> • DB-9 extension cable (FG10-727) • Programming Cable - a 3 wire, 2.5 mm stereo jack (FG10-817) • Custom engraving (FG147-01) • Mio-RCC Kit (FG147-03K) • Mio-RCC Charging Base (FG147-02) • Mio-RBP Rechargeable Lithium Ion Battery (FG147-10) • AXR-RF 418 MHZ RF Receiver (FG782-418) • AXR-RF 433 MHZ RF Receiver (FG782-433)

1.2 Instrument Calibration

All test instrumentation requiring calibration will be calibrated in accordance with ANSI Standard NCSL Z540-1. There will be a current calibration sticker attached to the item and traceability documentation will be provided at the customer's request.

1.2.1 Accuracy of Measurement

The expected accuracy of measurement shall be:

Frequency Accuracy: $\pm 2\%$

Amplitude Accuracy: ± 2 dB

Distance: $\pm 5\%$

Amplitude, Measurement System (includes measurement receivers, transducers, cables, etc):

Time (waveforms): ± 3 dB
 $\pm 5\%$

Radiated Emission Measurement Uncertainty: 5.49dB (Using PMAT method with K = 2).

1.3 Ambient Tests

In the event that an out-of-tolerance interference condition arises, ambient measurements shall be made in the frequency range where out-of-tolerance condition is present. Ambient measurements shall be made with power applied to all equipment, with the exception of the system under test. This level shall be at least 6 dB below the specification limits of FCC Part 15.

1.4 Failure Reporting

In the event of a test item failure or a test anomaly, the following procedure will be followed:

1. The testing will be stopped.
2. The AMX Corporation Program Manager or his designate will immediately be notified.
3. A Notice of Deviation (NOD) will be prepared.
4. The test item will be retained in the setup or in storage, as applicable, pending disposition from AMX Corporation.
5. Testing will be resumed only on instructions (written, if practicable) of AMX Corporation to the project engineer or test engineer.

1.5 Threshold of Susceptibility

When susceptibility indications are noted in test sample operation, the threshold level shall be determined where the susceptible condition is no longer present. The threshold level shall be determined as follows:

1. When a susceptibility condition is detected, reduce the signal level until the test sample recovers.
2. Gradually increase the signal level until the susceptibility condition reoccurs. The resulting level is the threshold of susceptibility, and that level shall be recorded.

1.6 Test Program Deviation

Unless otherwise directed by the responsible test witness, the tests described in the table summary page of this document may be performed in any sequence.

In the event that test plan deviations are required during the normal qualification test program, they shall be made only upon approval of the cognizant representative and that approval shall be noted in the test log with a complete description and justification for such deviations.

1.7 Inspection

All tests described herein may have been witnessed by the authorized representative(s) of AMX Corporation. All testing will be performed by qualified test engineers/personnel.

1.8 Disposition of Test Items

The test sample was returned to AMX Corporation upon completion of the test program.

1.9 Test Facility

Measurements for this report were taken at Nemco Dallas, EMC Test Facility, 802 N. Kealy, Dallas, Texas, USA. At the time of testing, the EMC facility had the following accreditations, registrations, etc.:

- Compliance with the requirements of ISO/IEC 17025:2005
- Compliance with the radiated and AC line conducted test site criteria in ANSI C63.4-2005 as required by the Federal Communications Commission (FCC).

2.0 GENERAL TEST METHODOLOGY

2.1 Emissions

Required emissions testing is performed in accordance with the respective measurement procedures listed on page 1. Specifics such as test locations will be listed in the appropriate data sections of this report..

Radiated measurements are performed in either a semi-anechoic chamber meeting the normalized site attenuation of ANSI C63.4 and listed with the FCC with an antenna to EUT distance of 3m or an OATS Site with an antenna to EUT distance of 10m. The applicable frequency spectrum is scanned with a calibrated RF measuring system using an antenna and a spectrum analyzer and compared to the appropriate limits. “Maximization” of each suspect frequency is accomplished by a combination of a 360° azimuth search and varying the antenna to ground plane height from 1m to 4m. Also, both the vertical and horizontal polarization are scanned in the frequency range of 30 MHz to 1 GHz per ANSI C63.4. Final data is collected in the worst case configurations of the EUT with the highest emission levels.

Other emissions tests will be performed in accordance with the appropriate measurement procedures listed in this report.

2.1.1 Radiated Emissions Field Strength Calculations

$FS = RA + AF + CF - AG$ where: FS = field strength CF = cable attenuation factor
RA = receiver amplitude AG = amplifier gain
AF = Antenna Factor

The receiver used for radiated emissions measurements performed the field strength calculations automatically. The program has resident AF and CF figures for individual antennas and cables.

2.2 Order of Testing

Testing normally proceeds from the least volatile to the most. As an example for “global” requirements the sequence typically would begin with conducted emissions, then radiated prescans in the semi-anechoic chamber, then Final radiated emissions measurements inside the FCC Certified Chamber. The actual order may vary due to tests conducted, scheduling and facility availability.

2.3 Special Test Justification

None

3.0 TEST CONFIGURATION

3.1 Selection of EUT Configuration and Modes of Operation

As per measurement procedures, **the worst-case test configuration and mode of operation was used for all testing**. Unless otherwise noted elsewhere in this report, this selection will apply to all testing. The selection process was based on previous investigative testing of the EUT system. Worst case operating mode is described as “Operate.” Other modes used will be listed in the respective data measurement sections when appropriate. Operating modes considered were all those available to the operator, including Standby.

3.1 Equipment Modifications

None.

4.0 TEST INSTRUMENTATION

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	08/26/06	08/26/07
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/26/06	08/26/07
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	04/20/06	04/20/07
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07
1284	Spectrum analyzer display	Hewlett Packard 8566B	1811A00223	02/16/06	02/16/07
1514	CABLE ASSY, LAB 2- B OATS	Nemko USA, Inc. SITE B OATS	N/A	04/21/06	04/21/07
762	27dB GAIN PREAMP	Nemko USA, Inc. 27dB LNA	946	09/07/05	09/07/06
1508	ANTENNA, LP	Nemko USA, Inc. 3146	1349	02/13/06	02/13/07

5.0 EMISSIONS

The test procedures of Paragraph 2.1 were followed for these measurements. Radiated final measurements were made Semi-anechoic chamber at three meters distance from antenna described in Paragraph 2.0. All readings are quasi-peak unless otherwise stated and are listed in order of ascending delta. The original test data is contained in Master Job Folder B6082, located at the National Technical Systems EMC Facility. Mode of operation is that listed under Paragraph 3.1, unless otherwise stated.

5.1 Radiated Emissions

5.1.2 Radiated Measurement CFR 47 FCC part 15.231 Subpart C

Mode of Operation during emissions test:

Mode of operations during emissions test: The diagnostic mode of the MIO-R2/MIO-R2 Remote Control Device was set to continuously transmit random data. Note that this mode represents the worst case where data transmissions can last for periods greater than 100mS. This diagnostic mode was added specifically to simplify FCC Subpart C compliance testing.

The nominal power output of the transmitter is 0.25 mW.

Test Result for FCC 15.231

The field strength was measured at 3 meters distance between Equipment under test and measurement antenna.

Radiated outside specific frequency band were met FCC part 15 subpart B class B and Spurious frequency per FCC part 15 subpart C requirement.

The maximum Radiated emission was scanned from 30Mhz to 9.2Ghz.

Test requirement Field Strength of Emissions from Intentional Radiator

EUT name: AMX Corporation MIO-R2/MIO-R2 Remote Control Device.

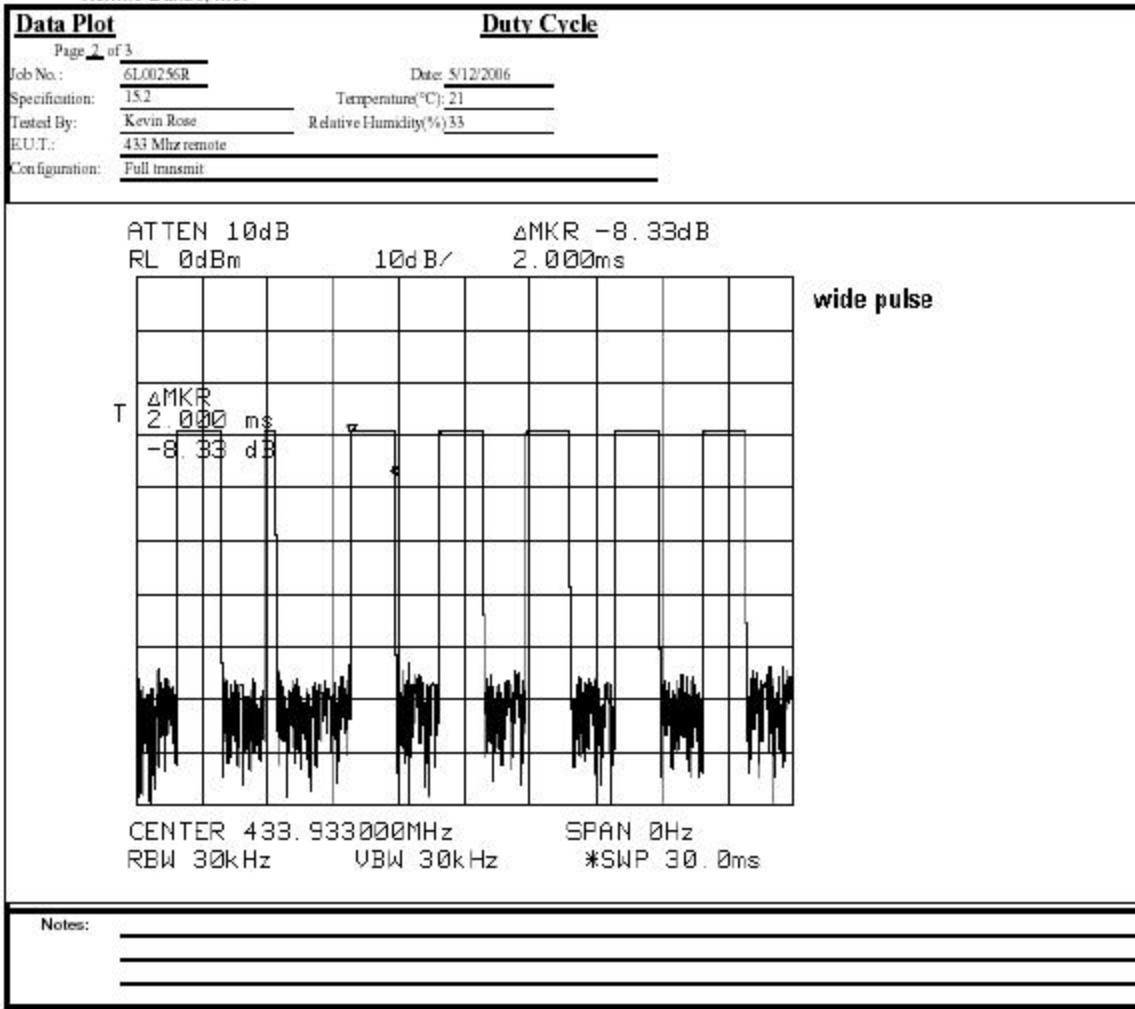
Reference to FCC part 15 subpart C, 15.231.

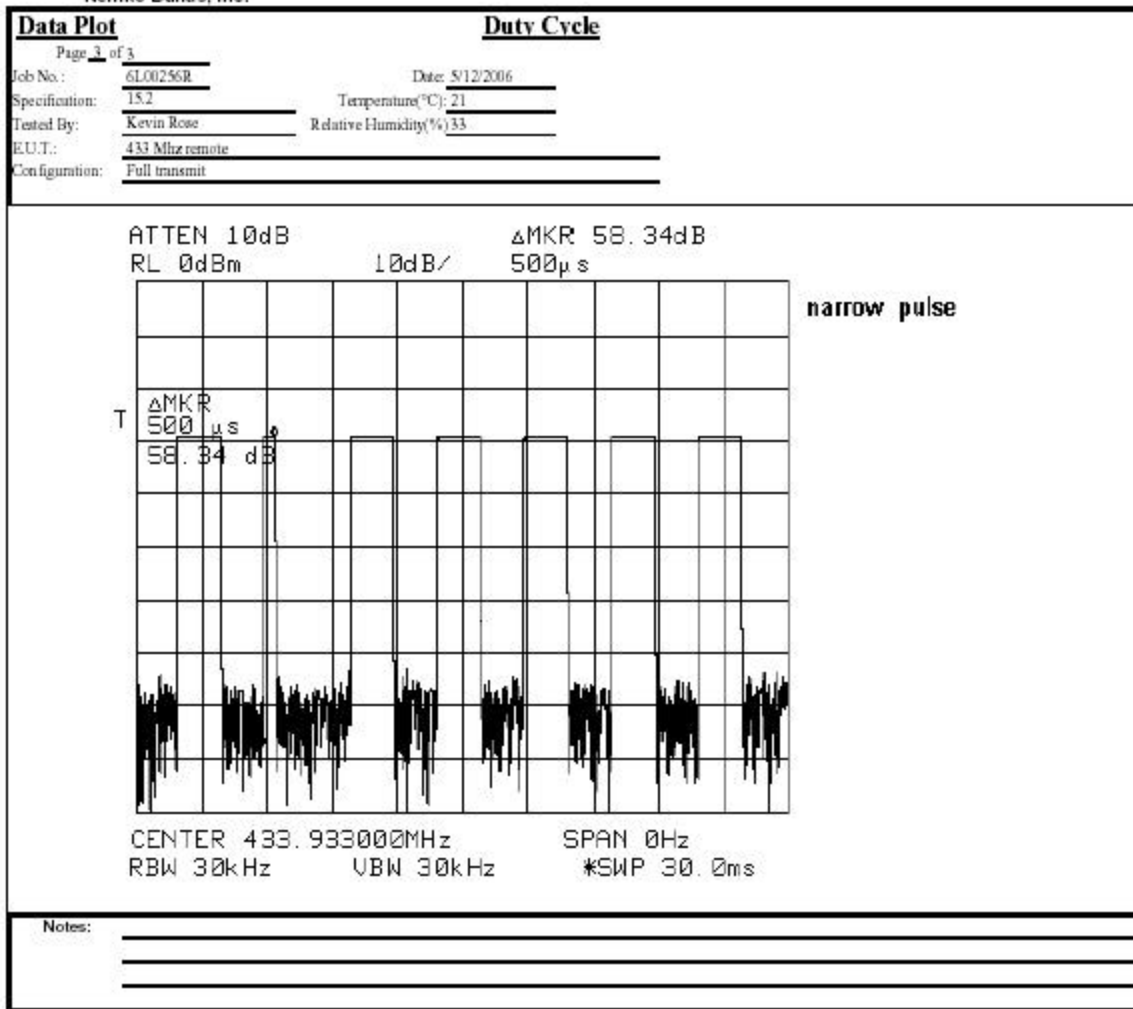
The fundamental frequency tuned at 418MHz and 433.93MHz 8 MHz.

Duty Cycle : 50 % (due to modulation method per manufacture information)

Fundamental frequency 433Mhz

Data Plot	Duty Cycle	
Page <u>1</u> of <u>3</u>		Complete <u>X</u>
Job No.: <u>6L00256R</u>	Date: <u>5/12/2006</u>	Preliminary: _____
Specification: <u>15.231</u>	Temperature(°C): <u>21</u>	
Tested By: <u>Kevin Rose</u>	Relative Humidity(%): <u>33</u>	
E.U.T.: <u>433 Mhz remote</u>		
Configuration: <u>Full transmit</u>		
Sample Number: <u>1</u>		
Location: <u>Lab 1</u>	RBW: <u>Refer to plots</u>	
Detector Type: <u>Peak</u>	VBW: <u>Refer to plots</u>	
Test Equipment Used		
Antenna: <u>903</u>	Directional Coupler: _____	
Pre-Amp: _____	Cable #1: _____	
Filter: _____	Cable #2: _____	
Receiver: <u>1464</u>	Cable #3: _____	
Attenuator #1: _____	Cable #4: _____	
Attenuator #2: _____	Mixer: _____	
Additional equipment used: <u>none</u>		
Measurement Uncertainty: <u>+/-1.7 dB</u>		
<p>ATTEN 10dB ΔMKR - .50dB</p> <p>RL 0dBm 10dB/ 6.67ms</p>		
		<p>100ms duty cycle</p> <p>13 2ms wide pulses</p> <p>2 500us narrow pulses</p>
<p>SWEPT TIME 100 ms</p> <p>CENTER 433.933000MHz SPAN 0Hz</p> <p>RBW 30kHz VBW 30kHz *SWP 100ms</p>		
Notes:		
<u>(27/100)log*20=11.4</u>		

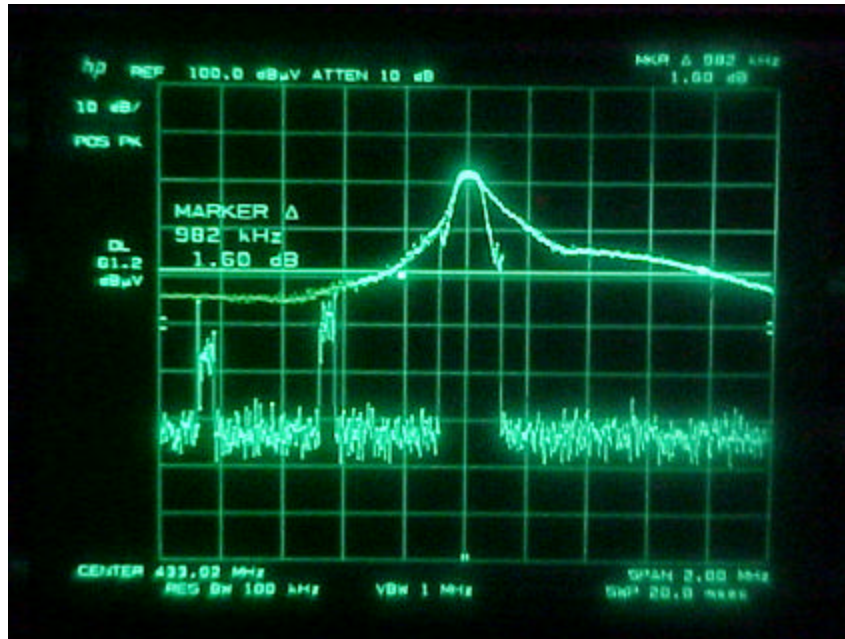




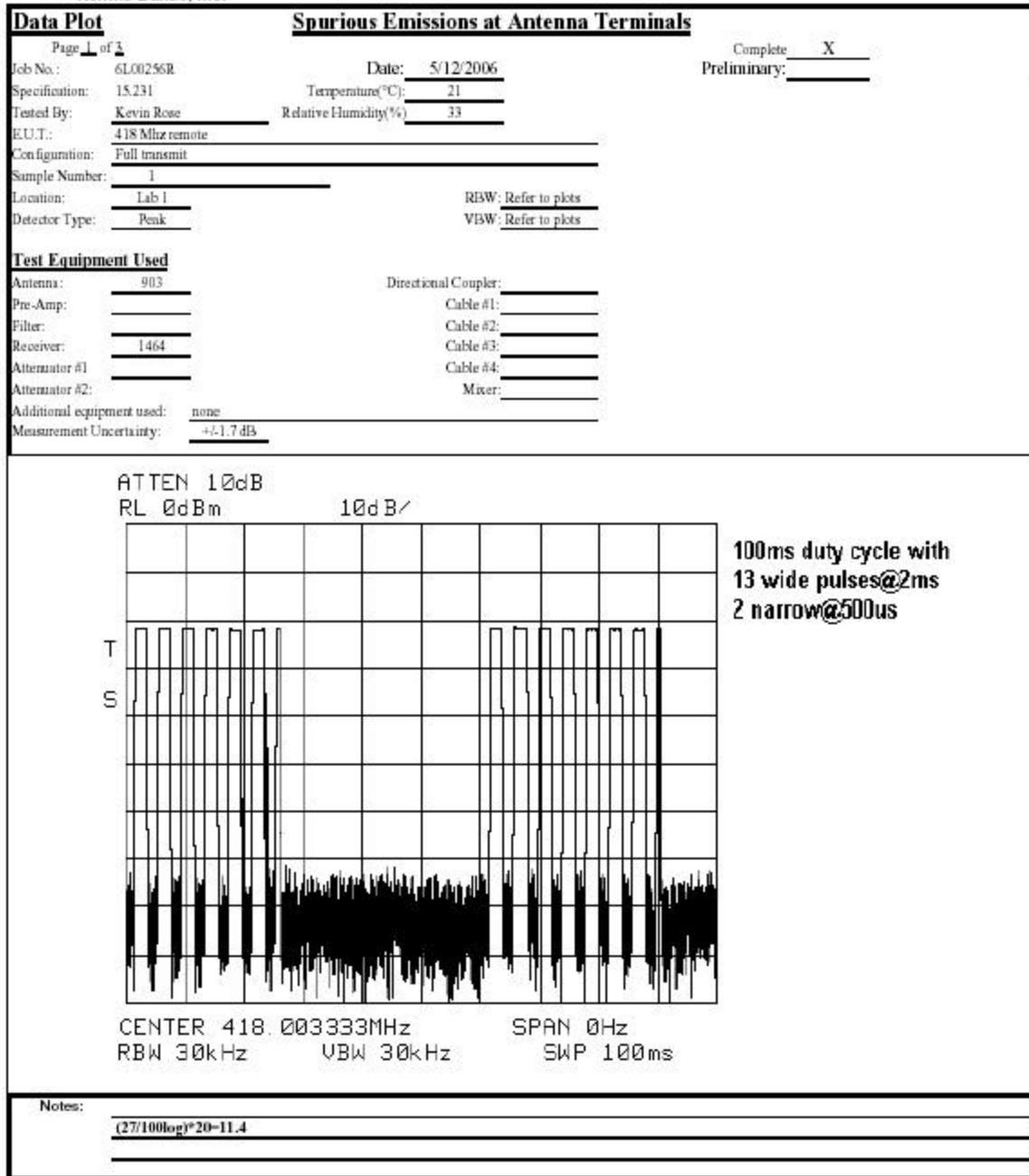
Per FCC part 15.231 para. C; 20dB down from carrier

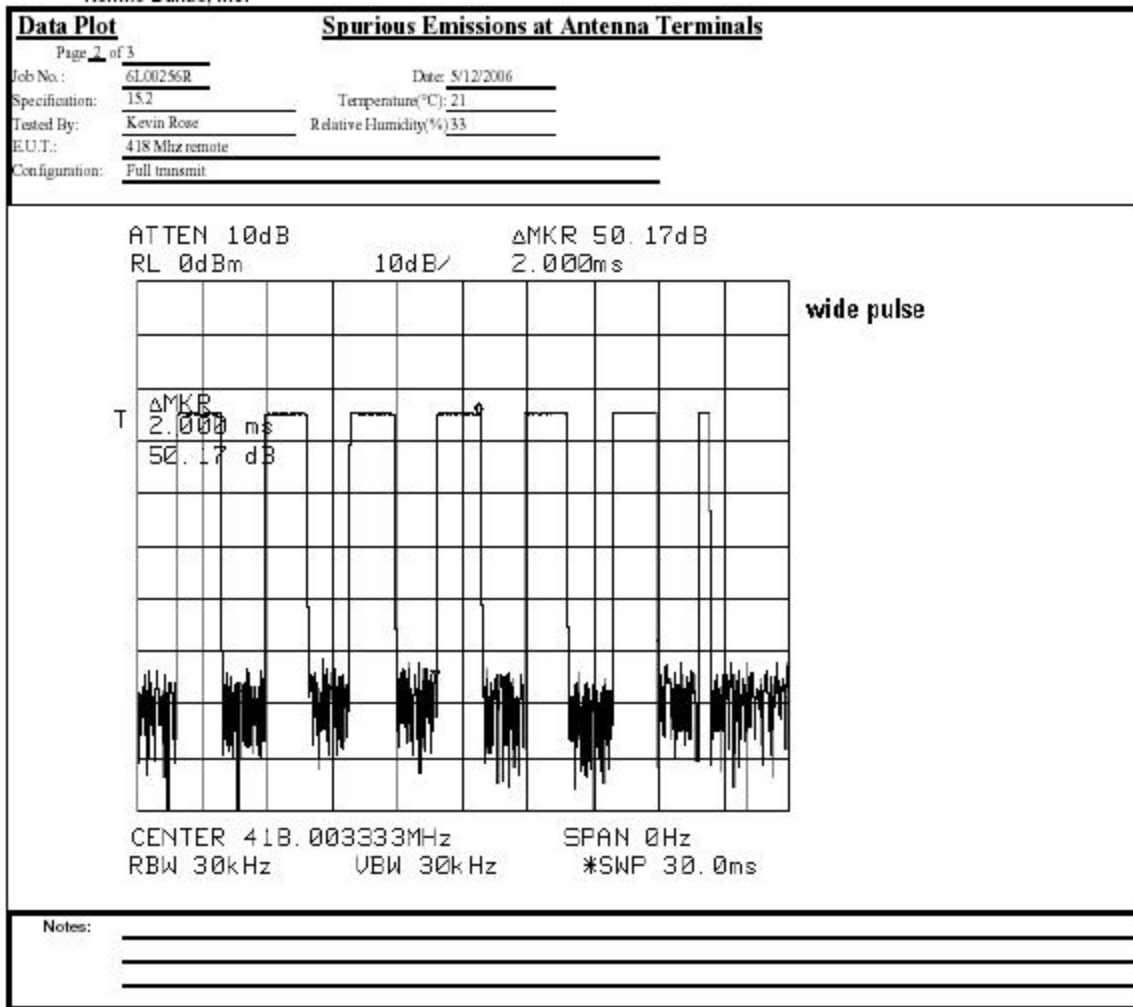
Fundamental frequency 433Mhz

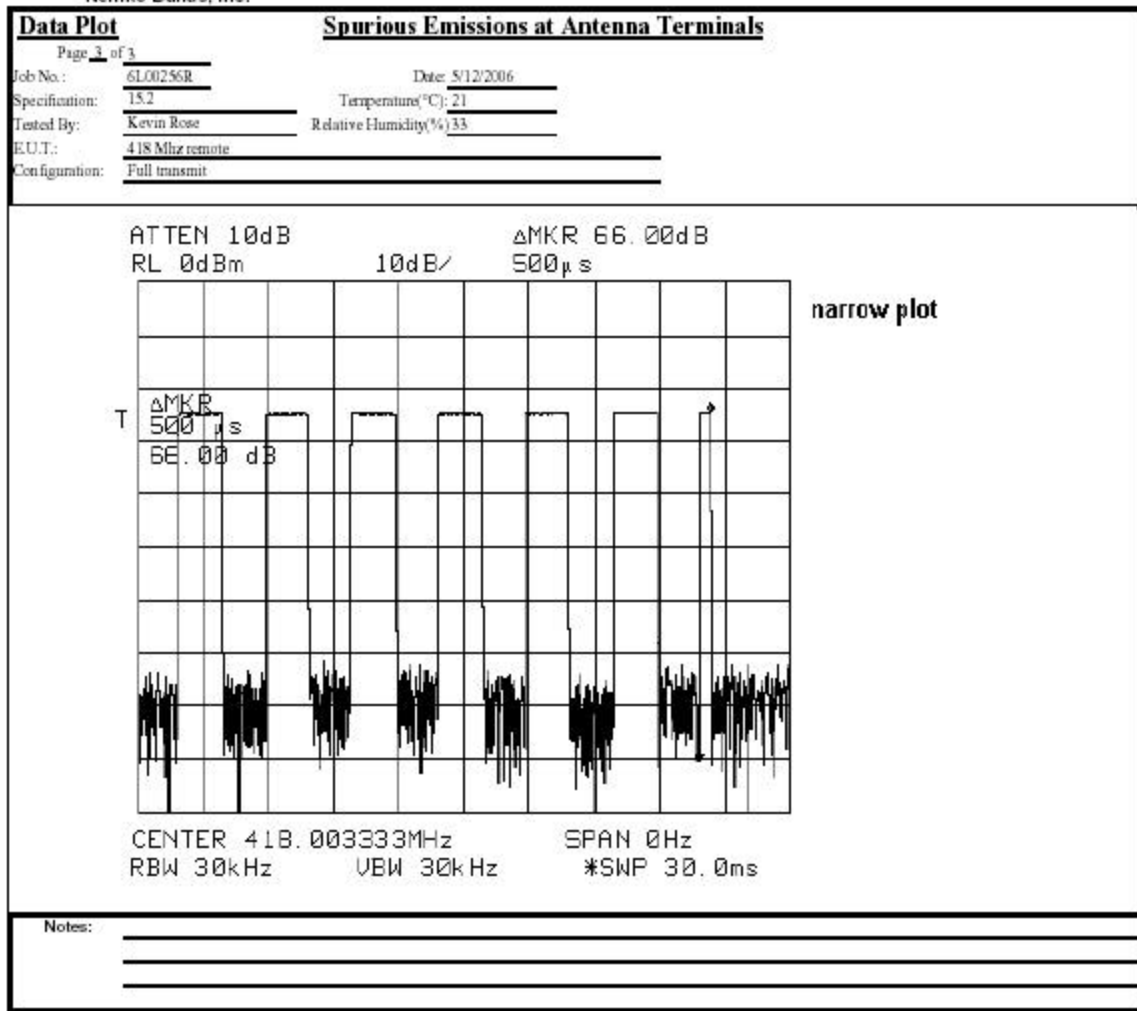
EUT was complies with the limits of CFR title 47, part 15, Subpart C, section 15.231



Duty Cycle: 50 % (due to modulation method per manufacture information)
Fundamental frequency 418Mhz



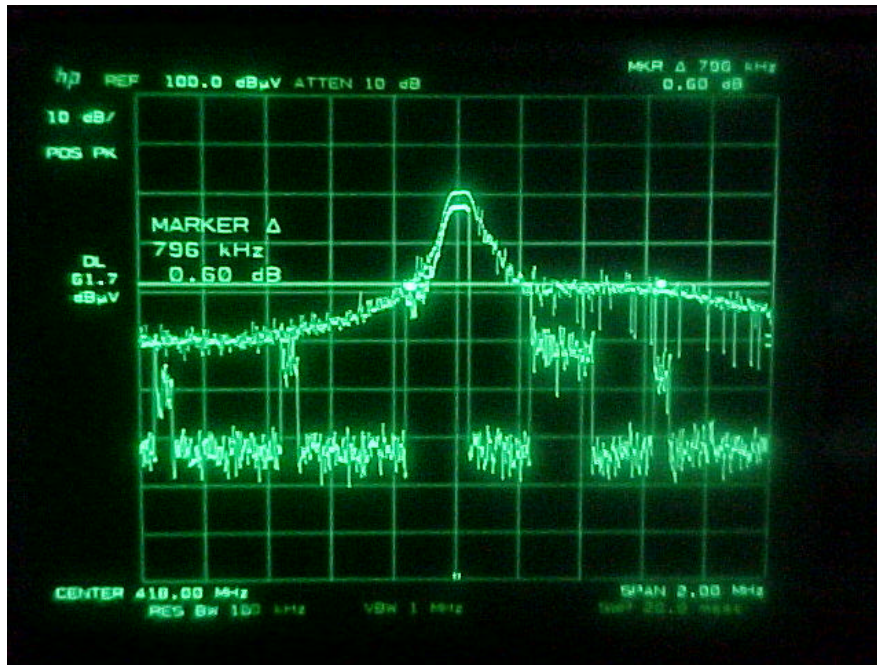




Per FCC part 15.231 para. C; 20dB down from carrier

Fundamental frequency 418Mhz

EUT was complies with the limits of CFR title 47, part 15, Subpart C, section 15.231



Test Data for 433Mhz Remote control

Per CFR47 part 15.231

Specification :		CFR47 Part 15.231		Reference :			
Rod. Ant. #:	_____	Temp. (deg. C) :	21	Date :	05/12/06		
Bicon Ant.#:	_____	Humidity (%) :	43	Time :	10:30		
Log Ant.#:	1508	EUT Voltage :	5VDC	Staff :	Kevin Rose		
Bilog Ant.#:	_____	EUT Frequency :	NA	Photo ID:	_____		
Dipole Ant.#:	_____	Phase:	NA	Peak Bandwidth:	100 KHz		
Cable#:	1514	Location:	B.OATS	Video Bandwidth	100 KHz		
Preamp#:	762	Distance:	3				
Limiter#:	na						
Atten #:	na						
Detector#:	_____						

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	QP readings Comment
433.93	V	0	43.5	15.2	6.0	0.0	64.7	80.8	-16.1	Pass	11.4DB DUTY CYCLE
434.93	H	0	51.5	15.2	6.0	0.0	72.7	80.8	-8.1	Pass	11.4DB DUTY CYCLE
867.83	V	0	45.7	22.2	9.0	27.8	49.1	60.8	-11.7	Pass	
867.83	H	0	49.7	22.2	9.0	27.8	53.1	60.8	-7.7	Pass	

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Test Data for 433Mhz Remote control

Data Plot		RADIATED SPURIOUS						Complete <u> X </u>			
Page <u> 1 </u> of <u> 1 </u>								Preliminary: _____			
Job No.:	6L00256R	Date:	5/12/2006								
Specification:	15.231	Temperature(°C):	21								
Tested By:	Kevin Rose	Relative Humidity(%)	33								
E.U.T.:	434 Mhz remote										
Configuration:	Full transmit										
Sample Number:	1										
Location:	Lab 2			RBW: 100 kHz							
Detector Type:	Peak			VBW: 100 kHz							
Test Equipment Used											
Antenna:	993	Directional Coupler:									
Pre-Amp:	1016	Cable #1:		1484							
Filter:		Cable #2:		1485							
Receiver:	1464	Cable #3:									
Attenuator #1:		Cable #4:									
Attenuator #2:		Mixer:									
Additional equipment used:	none										
Measurement Uncertainty:	±1.7 dB										
Measurement Data: Reading listed by order taken. Test Distance: 3 Meters											
#	Freq MHz	Rdng dBµV	Cable dB	Cable dB	Pre-A dB	Hom dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1735.720M	58.2	+0.7	+2.0	+31.7	+26.4	+0.0	55.6	60.8	-5.2	Vert
2	1301.790M	56.0	+0.2	+1.6	+31.0	+23.7	+0.0	50.5	54.0	-3.5	Vert
3	2169.650M	56.5	+0.6	+2.2	+31.8	+28.7	+0.0	56.2	60.8	-4.6	Vert
4	2603.580M	56.0	+0.8	+2.6	+32.5	+29.2	+0.0	56.1	60.8	-4.7	Vert
5	3037.510M	49.3	+0.8	+2.6	+32.4	+29.7	+0.0	50.0	60.8	-10.8	Vert
6	3471.440M	48.7	+0.7	+2.8	+32.1	+29.9	+0.0	50.0	60.8	-10.8	Vert
7	3905.370M	48.2	+0.9	+2.9	+31.3	+31.3	+0.0	52.0	54.0	-2.0	Vert
8	3905.370M	34.4	+0.9	+2.9	+31.3	+31.3	+0.0	38.2	54.0	-15.8	Vert
9	Ave 4339.300M	46.3	+1.0	+3.0	+31.5	+31.9	+0.0	50.7	54.0	-3.3	Vert
10	Ave 4339.300M	36.3	+1.0	+3.0	+31.5	+31.9	+0.0	40.7	54.0	-13.3	Vert
11	1301.790M	56.8	+0.2	+1.6	+31.0	+23.7	+0.0	51.3	54.0	-2.7	Hertz
12	1735.720M	56.8	+0.7	+2.0	+31.7	+26.4	+0.0	54.2	60.8	-6.6	Hertz
13	2169.650M	53.5	+0.6	+2.2	+31.8	+28.7	+0.0	53.2	60.8	-7.6	Hertz
14	2603.580M	49.3	+0.8	+2.6	+32.5	+29.2	+0.0	49.4	60.8	-11.4	Hertz
15	3037.510M	43.0	+0.8	+2.6	+32.4	+29.7	+0.0	43.7	60.8	-17.1	Hertz
16	3471.440M	44.2	+0.7	+2.8	+32.1	+29.9	+0.0	45.5	60.8	-15.3	Hertz
17	3905.370M	44.0	+0.9	+2.9	+31.3	+31.3	+0.0	47.8	54.0	-6.2	Hertz
18	4339.300M	42.7	+1.0	+3.0	+31.5	+31.9	+0.0	47.1	54.0	-6.9	Hertz
19	Ave 1301.790M	45.4	+0.2	+1.6	+31.0	+23.7	+0.0	39.9	54.0	-14.1	Hertz
Notes:											
A FULLY CHARGED BATTERY WAS USED DURING TEST											
THE EUT WAS TESTED ON WORST CASE AXES AS PREVIOUSLY FOUND											

Test Data for 418Mhz Remote control

Data Plot		RADIATED SPURIOUS						Complete <u>X</u>			
Page 1 of 1		Date: 5/12/2006				Preliminary: _____					
Job No.: 6L00256R		Temperature(°C): 21									
Specification: 15.231		Relative Humidity(%): 33									
Tested By: Kevin Rose											
E.U.T.: 418 Mhz remote											
Configuration: Full transmit											
Sample Number: 1											
Location: Lab 2		RBW: 100 kHz									
Detector Type: Peak		VBW: 100 kHz									
Test Equipment Used											
Antenna: 993		Directional Coupler: _____									
Pre-Amp: 1016		Cable #1: 1484									
Filter: _____		Cable #2: 1485									
Receiver: 1464		Cable #3: _____									
Attenuator #1: _____		Cable #4: _____									
Attenuator #2: _____		Mixer: _____									
Additional equipment used: none											
Measurement Uncertainty: +/-1.7 dB											
Measurement Data: Reading listed by order taken. Test Distance: 4 Meters											
#	Freq MHz	Rchg dBµV	Cable dB	Cable dB	Pre-A dB	Horn dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1254.000M	63.5	+0.1	+1.5	+30.9	+23.6	+0.0	57.8	74.0	-16.2	Horiz
1	1254.000M Ave	63.5	+0.1	+1.5	+30.9	+23.6	+0.0	46.4	54.0	-8.6	Horiz
2	1672.067M	59.5	+0.7	+1.9	+31.6	+25.9	+0.0	56.4	74.0	-17.6	Horiz
3	1672.067M Ave	48.1	+0.7	+1.9	+31.6	+25.9	+0.0	45.0	54.0	-9.0	Horiz
4	2089.967M	48.0	+0.7	+2.2	+31.9	+28.6	+0.0	47.6	60.3	-12.7	Horiz
5	2507.567M	46.7	+0.8	+2.3	+32.2	+29.0	+0.0	46.6	60.3	-13.7	Horiz
6	2925.567M	44.3	+0.8	+2.7	+32.4	+29.6	+0.0	45.0	60.3	-15.3	Horiz
7	3343.567M	43.2	+0.7	+2.7	+32.3	+29.8	+0.0	44.1	60.3	-16.2	Horiz
8	3761.567M	43.7	+0.9	+2.9	+31.5	+30.8	+0.0	46.8	54.0	-7.2	Horiz
9	4179.566M	42.8	+1.0	+3.0	+31.4	+31.7	+0.0	47.1	54.0	-6.9	Horiz
10	1254.133M	65.8	+0.1	+1.5	+30.9	+23.6	+0.0	60.1	74	-13.9	Vert
11	1254.133M Ave	54.4	+0.1	+1.5	+30.9	+23.6	+0.0	48.7	54	-5.3	Vert
12	1672.133M	60.3	+0.7	+1.9	+31.6	+25.9	+0.0	57.2	74.0	-16.8	Vert
13	1672.133M Ave	48.9	+0.7	+1.9	+31.6	+25.9	+0.0	45.8	54.0	-8.2	Vert
14	2090.133M	50.2	+0.7	+2.2	+31.9	+28.6	+0.0	49.8	60.3	-10.5	Vert
15	2508.133M	46.2	+0.8	+2.3	+32.2	+29.0	+0.0	46.1	60.3	-14.2	Vert
16	2926.133M	48.3	+0.8	+2.7	+32.4	+29.6	+0.0	49.0	60.3	-11.3	Vert
17	3344.133M	49.3	+0.7	+2.7	+32.3	+29.8	+0.0	50.2	60.3	-10.1	Vert
18	3761.733M	48.2	+0.9	+2.9	+31.5	+30.8	+0.0	51.3	74.0	-22.7	Vert
19	3761.733M Ave	36.8	+0.9	+2.9	+31.5	+30.8	+0.0	39.9	54.0	-14.1	Vert
20	4179.733M	51.7	+1.0	+3.0	+31.4	+31.7	+0.0	56.0	74.0	-18.0	Vert
21	4179.733M Ave	40.3	+1.0	+3.0	+31.4	+31.7	+0.0	44.6	54.0	-9.4	Vert
Notes:											
A FULLY CHARGED BATTERY WAS USED DURING TEST											
THE EUT WAS TESTED ON WORST CASE AXES AS PREVIOUSLY FOUND											

5.2 Conducted Emissions

Not required, it's a battery-operated unit