

*FCC PART 15, SUBPART B and C
TEST REPORT*

for

TRANSMITTER

MODEL NUMBER: TX5LR

Prepared for

FOXPRO SYSTEMS
 609 W. 4TH STREET
 LEWISTOWN, PENNSYLVANIA 17044

Prepared by: _____

JAMES ROSS

Approved by: _____

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DATE: JULY 27, 2004

	REPORT BODY	APPENDICES					TOTAL
		A	B	C	D	E	
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1	Plot Map And Layout of Radiated Test Site



GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Transmitter
 Model Number: TX5LR
 S/N: N/A

Product Description: See Expository Statement.
 Modifications: The EUT was not modified in order to meet the specifications.
 Manufacturer: Foxpro Systems
 609 W. 4th Street
 Lewistown, Pennsylvania 17044
 Test Dates: July 21 and 22, 2004
 Test Specifications: EMI requirements
 CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209, and 15.231
 Test Procedure: ANSI C63.4
 Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz - 30 MHz	This test was not performed because the EUT operates on DC power only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz - 4340 MHz	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.



1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Transmitter Model Number: TX5LR. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 102 and 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Foxpro Systems

John Dillon

Compatible Electronics, Inc.

James Ross Test Engineer
Arnold Gaffud Sr. Test Engineer
Michael Christensen Sr. Test Engineer

2.4 Date Test Sample was Received

The test sample was received on July 21, 2004.

2.5 Disposition of the Test Sample

The test sample has not yet been returned to Foxpro Systems as of the date of this report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
PCB	Printed Circuit Board
TX	Transmit
RX	Receive



3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4: 2001	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz



4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Transmitter Model Number: TX5LR (EUT) was tested as a stand-alone device. The EUT was tested in three orthogonal axis. The EUT was continuously transmitting. The antenna is an ANT-418-LP.

The final radiated data was taken in the mode above. Please see Appendix E for the data sheets.



4.1.1 Cable Construction and Termination

There are no external cables connected to the EUT.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
TRANSMITTER (EUT)	FOXPRO SYSTEMS	TX5LR	N/A	C6MTX5LR



5.2 **EMI Test Equipment**

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Radiate Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08768	June 24, 2004	1 Year
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	June 24, 2004	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	June 24, 2004	1 Year
Multi-Device Controller	Emco	2090	9701-1215	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB 40	100194	November 24, 2003	1 Year
RF Attenuator	Weinschel Corporation	2	BJ6396	August 7, 2003	1 Year
Preamplifier	Com Power	PA-102	1017	January 6, 2004	1 Year
Microwave Preamplifier	Com Power	PA-122	25196	March 4, 2004	1 Year
Loop Antenna	Com-Power	AL-130	17070	July 8, 2003	2 Year
Biconical Antenna	Com Power	AB-100	01548	October 8, 2003	1 Year
Log Periodic Antenna	Com Power	AL-100	16089	October 8, 2003	1 Year
Horn Antenna	Antenna Research	DRG-118/A	10085	January 8, 2004	1 Year
Motor Controlled Antenna Mass	Emco	2070 / 2080 Series	N/A	N/A	N/A
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A



6. TEST SITE DESCRIPTION

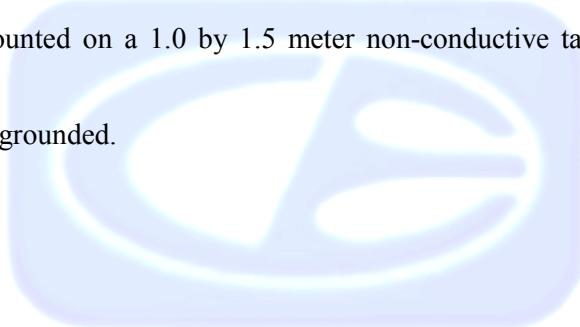
6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 5 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.



Radiated Emissions (Spurious and Harmonics) Test (con't)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data. The final qualification data sheets are located in Appendix E.



7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the EUT. Photos of the -20 dB bandwidth are located in Appendix E.



8. CONCLUSIONS

The Transmitter Model Number: TX5LR meets all of the Class B specification limits defined in CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.



APPENDIX A

LABORATORY RECOGNITIONS



LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)



APPENDIX B

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during testing.



APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Transmitter
Model Number: TX5LR
S/N: N/A

There were no additional models covered under this report.



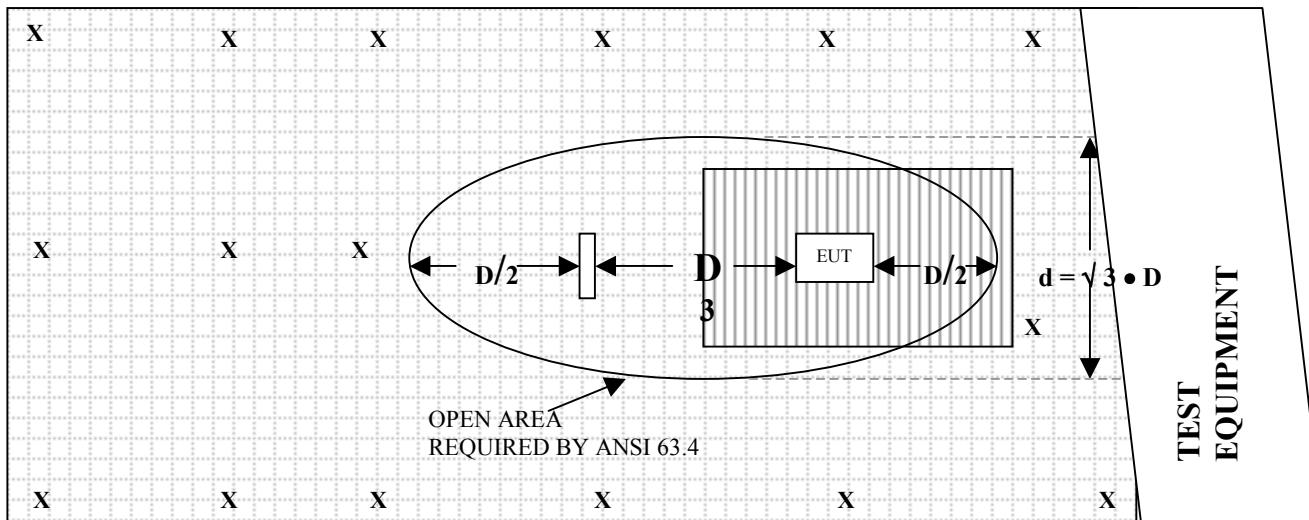
APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS



FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED TEST SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS



COM-POWER AL-130**LOOP ANTENNA****S/N: 17070****CALIBRATION DATE: JULY 8, 2003**

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-40.0	11.5
0.01	-40.1	11.4
0.02	-41.3	10.2
0.05	-41.7	9.8
0.07	-41.3	10.2
0.1	-41.5	10.0
0.2	-43.8	7.7
0.3	-41.4	10.1
0.5	-41.3	10.2
0.7	-41.2	10.3
1	-40.8	10.7
2	-40.3	11.2
3	-40.6	10.9
4	-40.7	10.8
5	-40.1	11.4
10	-40.5	11.0
15	-41.3	10.2
20	-41.1	10.4
25	-41.7	9.8
30	-43.1	8.4



COM-POWER AB-100**BICONICAL ANTENNA****S/N: 01548****CALIBRATION DATE: OCTOBER 8, 2003**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	13.10	120	9.90
35	12.90	125	11.40
40	14.60	140	12.00
45	12.80	150	13.00
50	12.90	160	13.90
60	9.30	175	14.20
70	8.20	180	14.30
80	8.00	200	14.90
90	8.10	250	16.60
100	8.80	300	19.70



COM-POWER AL-100**LOG PERIODIC ANTENNA****S/N: 16089****CALIBRATION DATE: OCTOBER 8, 2003**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.80	700	20.00
400	14.40	800	21.20
500	16.00	900	20.80
600	17.70	1000	21.70



COM-POWER AH-118**HORN ANTENNA****S/N: 10085****CALIBRATION DATE: JANUARY 8, 2004**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.5	10.0	38.7
1.5	26.7	10.5	39.2
2.0	30.8	11.0	39.2
2.5	30.3	11.5	40.3
3.0	30.3	12.0	41.2
3.5	30.7	12.5	41.7
4.0	31.3	13.0	41.5
4.5	32.6	13.5	41.7
5.0	33.9	14.0	41.6
5.5	34.3	14.5	44.2
6.0	34.3	15.0	47.6
6.5	39.4	15.5	42.5
7.0	37.1	16.0	42.3
7.5	38.6	16.5	41.7
8.0	39.4	17.0	43.9
8.5	39.3	17.5	48.7
9.0	38.7	18.0	52.4
9.5	38.7		



COM-POWER PA-102

PREAMPLIFIER

S/N: 1017

CALIBRATION DATE: JANUARY 6, 2004

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	37.8	300	37.6
40	37.5	350	37.5
50	37.7	400	37.5
60	37.5	450	37.0
70	37.5	500	37.1
80	37.5	550	37.3
90	37.5	600	37.1
100	37.5	650	37.4
125	37.8	700	37.1
150	37.5	750	37.1
175	37.5	800	36.8
200	37.6	850	36.2
225	37.6	900	36.7
250	37.5	950	36.2
275	37.6	1000	35.3



COM-POWER PA-122**MICROWAVE PREAMPLIFIER****S/N: 25196****CALIBRATION DATE: MARCH 4, 2004**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	32.1	6.0	28.9
1.1	32.0	6.5	29.3
1.2	31.8	7.0	29.7
1.3	31.6	7.5	29.8
1.4	31.5	8.0	29.9
1.5	31.4	8.5	30.2
1.6	31.2	9.0	30.3
1.7	31.0	9.5	29.9
1.8	30.8	10.0	29.3
1.9	30.7	11.0	28.5
2.0	30.5	12.0	30.5
2.5	30.0	13.0	31.1
3.0	29.7	14.0	29.9
3.5	29.2	15.0	29.8
4.0	28.6	16.0	29.1
4.5	28.4	17.0	28.0
5.0	28.3	18.0	26.0
5.5	28.5		





FRONT VIEW

FOXPRO SYSTEMS TRANSMITTER

MODEL NUMBER: TX5LR

FCC SUBPART B AND C - RADIATED EMISSIONS – 07-21-04 and 07-22-04

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS





REAR VIEW

FOXPRO SYSTEMS TRANSMITTER

MODEL NUMBER: TX5LR

FCC SUBPART B AND C - RADIATED EMISSIONS – 07-21-04 and 07-22-04

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS





FRONT VIEW

FOXPRO SYSTEMS

TRANSMITTER

MODEL NUMBER: TX5LR

FCC SUBPART B AND C – TRANSMIT SIGNAL AND HARMONICS – 07-21-04 and 07-22-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**





REAR VIEW

**FOXPRO SYSTEMS
TRANSMITTER**

MODEL NUMBER: TX5LR

FCC SUBPART B AND C – TRANSMIT SIGNAL AND HARMONICS – 07-21-04 and 07-22-04

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



APPENDIX E

DATA SHEETS



FCC 15.231

 Foxpro Systems
 Transmitter
 Model: TX5LR
 Configuration: Transmit Mode

 Date: 7/21/04
 Lab: X
 Tested By: Arnold Gaffud
 Polarization: Vertical - X Axis

 Duty Cycle = **40.2%**
 Harmonic Peak Limit = **80.285**
 Harmonic Avg. Limit = **60.285**

= Enter these values

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	85.3	V	100.285	-14.985	Peak	1.5	315	
418	77.3845	V	80.285	-2.9005	Avg	1.5	315	
836	46.5	V	80.285	-33.785	Peak	1.5	45	
836	38.5845	V	60.285	-21.7	Avg	1.5	45	
1254	46.11	V	80.285	-34.175	Peak	1	315	
1254	38.1945	V	60.285	-22.09	Avg	1	315	
1672		V	74	-74	Peak			No emissions
1672		V	54	-54	Avg	0	0	detected
2090		V	80.285	-80.285	Peak			No emissions
2090		V	60.285	-60.285	Avg	0	0	detected
2508		V	80.285	-80.285	Peak			No emissions
2508		V	60.285	-60.285	Avg	0	0	detected
2926		V	80.285	-80.285	Peak			No emissions
2926		V	60.285	-60.285	Avg	0	0	detected
3344		V	80.285	-80.285	Peak			No emissions
3344		V	60.285	-60.285	Avg	0	0	detected
3762		V	74	-74	Peak			No emissions
3762		V	54	-54	Avg	0	0	detected
4180		V	74	-74	Peak			No emissions
4180		V	54	-54	Avg	0	0	detected



FCC 15.231

 Foxpro Systems
 Transmitter
 Model: TX5LR
 Configuration: Transmit Mode

 Date: 7/21/04
 Lab: X
 Tested By: Arnold Gaffud
 Polarization: Horizontal - X axis

Duty Cycle =	40.2%
Harmonic Peak Limit =	80.285
Harmonic Avg. Limit =	60.285

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	70.8	H	100.285	-29.485	Peak	1	135	
418	62.8845	H	80.285	-17.4	Avg	1	135	
836	33.4	H	80.285	-46.885	Peak	1	180	
836	25.4845	H	60.285	-34.8	Avg	1	180	
1254	45.92	H	80.285	-34.365	Peak	1	180	
1254	38.0045	H	60.285	-22.28	Avg	1	180	
1672		H	74	-74	Peak			No emissions
1672		H	54	-54	Avg	0	0	detected
2090		H	80.285	-80.285	Peak			No emissions
2090		H	60.285	-60.285	Avg	0	0	detected
2508		H	80.285	-80.285	Peak			No emissions
2508		H	60.285	-60.285	Avg	0	0	detected
2926		H	80.285	-80.285	Peak			No emissions
2926		H	60.285	-60.285	Avg	0	0	detected
3344		H	80.285	-80.285	Peak			No emissions
3344		H	60.285	-60.285	Avg	0	0	detected
3762		H	74	-74	Peak			No emissions
3762		H	54	-54	Avg	0	0	detected
4180		H	74	-74	Peak			No emissions
4180		H	54	-54	Avg	0	0	detected



FCC 15.231

 Foxpro Systems
 Transmitter
 Model: TX5LR
 Configuration: Transmit Mode

 Date: 7/21/04
 Lab: X
 Tested By: Arnold Gaffud
 Polarization: Vertical - Y Axis

 Duty Cycle = **40.2%**
 Harmonic Peak Limit = **80.285**
 Harmonic Avg. Limit = **60.285**

= Enter these values

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	74.4	V	100.285	-25.885	Peak	2.5	0	
418	66.4845	V	80.285	-13.8	Avg	2.5	0	
836	34.2	V	80.285	-46.085	Peak	1	45	
836	26.2845	V	60.285	-34	Avg	1	45	
1254	46.1	V	80.285	-34.185	Peak	1.5	45	
1254	38.1845	V	60.285	-22.1	Avg	1.5	45	
1672	45.3	V	74	-28.7	Peak	1	0	
1672	37.3845	V	54	-16.615	Avg	1	0	
2090		V	80.285	-80.285	Peak			No emissions
2090		V	60.285	-60.285	Avg	0	0	detected
2508		V	80.285	-80.285	Peak			No emissions
2508		V	60.285	-60.285	Avg	0	0	detected
2926		V	80.285	-80.285	Peak			No emissions
2926		V	60.285	-60.285	Avg	0	0	detected
3344		V	80.285	-80.285	Peak			No emissions
3344		V	60.285	-60.285	Avg	0	0	detected
3762		V	74	-74	Peak			No emissions
3762		V	54	-54	Avg	0	0	detected
4180		V	74	-74	Peak			No emissions
4180		V	54	-54	Avg	0	0	detected



FCC 15.231

 Foxpro Systems
 Transmitter
 Model: TX5LR
 Configuration: Transmit Mode

 Date: 7/21/04
 Lab: X
 Tested By: Arnold Gaffud
 Polarization: Horizontal - Y Axis

 Duty Cycle = **40.2%**
 Harmonic Peak Limit = **80.285**
 Harmonic Avg. Limit = **60.285**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	83.6	H	100.285	-16.685	Peak	1	270	
418	75.6845	H	80.285	-4.6005	Avg	1	270	
836	44.1	H	80.285	-36.185	Peak	1	90	
836	36.1845	H	60.285	-24.1	Avg	1	90	
1254	45.45	H	80.285	-34.835	Peak	1.5	225	
1254	37.5345	H	60.285	-22.75	Avg	1.5	225	
1672	45.08	H	74	-28.92	Peak	1.5	315	
1672	37.1645	H	54	-16.835	Avg	1.5	315	
2090		H	80.285	-80.285	Peak			No emissions
2090		H	60.285	-60.285	Avg	0	0	detected
2508		H	80.285	-80.285	Peak			No emissions
2508		H	60.285	-60.285	Avg	0	0	detected
2926		H	80.285	-80.285	Peak			No emissions
2926		H	60.285	-60.285	Avg	0	0	detected
3344		H	80.285	-80.285	Peak			No emissions
3344		H	60.285	-60.285	Avg	0	0	detected
3762		H	74	-74	Peak			No emissions
3762		H	54	-54	Avg	0	0	detected
4180		H	74	-74	Peak			No emissions
4180		H	54	-54	Avg	0	0	detected



FCC 15.231

 Foxpro Systems
 Transmitter
 Model: TX5LR
 Configuration: Transmit Mode

 Date: 7/21/04
 Lab: X
 Tested By: Arnold Gaffud
 Polarization: Vertical - Z Axis

 Duty Cycle = **40.2%**
 Harmonic Peak Limit = **80.285**
 Harmonic Avg. Limit = **60.285**

= Enter these values

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	77.4	V	100.285	-22.885	Peak	2.5	0	
418	69.4845	V	80.285	-10.8	Avg	2.5	0	
836	34.6	V	80.285	-45.685	Peak	1	45	
836	26.6845	V	60.285	-33.6	Avg	1	45	
1254	45.17	V	80.285	-35.115	Peak	1	270	
1254	37.2545	V	60.285	-23.03	Avg	1	270	
1672		V	74	-74	Peak			No emissions
1672		V	54	-54	Avg	0	0	detected
2090		V	80.285	-80.285	Peak			No emissions
2090		V	60.285	-60.285	Avg	0	0	detected
2508		V	80.285	-80.285	Peak			No emissions
2508		V	60.285	-60.285	Avg	0	0	detected
2926		V	80.285	-80.285	Peak			No emissions
2926		V	60.285	-60.285	Avg	0	0	detected
3344		V	80.285	-80.285	Peak			No emissions
3344		V	60.285	-60.285	Avg	0	0	detected
3762		V	74	-74	Peak			No emissions
3762		V	54	-54	Avg	0	0	detected
4180		V	74	-74	Peak			No emissions
4180		V	54	-54	Avg	0	0	detected



FCC 15.231

 Foxpro Systems
 Transmitter
 Model: TX5LR
 Configuration: Transmit Mode

 Date: 7/21/04
 Lab: X
 Tested By: Arnold Gaffud
 Polarization: Horizontal - Z Axis

 Duty Cycle = **40.2%**
 Harmonic Peak Limit = **80.285**
 Harmonic Avg. Limit = **60.285**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	85.2	H	100.285	-15.085	Peak	1	270	
418	77.2845	H	80.285	-3.0005	Avg	1	270	
836	46.6	H	80.285	-33.685	Peak	1	90	
836	38.6845	H	60.285	-21.6	Avg	1	90	
1254	44.96	H	80.285	-35.325	Peak	1.25	225	
1254	37.0445	H	60.285	-23.24	Avg	1.25	225	
1672		H	74	-74	Peak			No emissions
1672		H	54	-54	Avg	0	0	detected
2090		H	80.285	-80.285	Peak			No emissions
2090		H	60.285	-60.285	Avg	0	0	detected
2508		H	80.285	-80.285	Peak			No emissions
2508		H	60.285	-60.285	Avg	0	0	detected
2926		H	80.285	-80.285	Peak			No emissions
2926		H	60.285	-60.285	Avg	0	0	detected
3344		H	80.285	-80.285	Peak			No emissions
3344		H	60.285	-60.285	Avg	0	0	detected
3762		H	74	-74	Peak			No emissions
3762		H	54	-54	Avg	0	0	detected
4180		H	74	-74	Peak			No emissions
4180		H	54	-54	Avg	0	0	detected



RADIATED EMISSIONS

DATA SHEETS



Test Location : Compatible Electronics **Page** : 1/1
Customer : FoxPro Systems **Date** : 7/22/2004
Manufacturer : FoxPro Systems **Time** : 9:12:00
Eut name : Transmitter **Lab** : D
Model : TX5LR **Test Distance** : 3.0 Meters
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Oscillators/clocks: 32 kHz, 2.5 MHz, 418 MHz
 Test Setup: Axis - X, Y, and Z
 FCC Class B - 10 kHz to 5 GHz (spurious)
 Test Engineer: Arnold Gaffud

Pol	Freq	Rdng	Cable	Ant	Amp	Cor'd	Limit	Delta
	MHz	dBuV	loss	factor	gain	rdg = R	= L	R-L

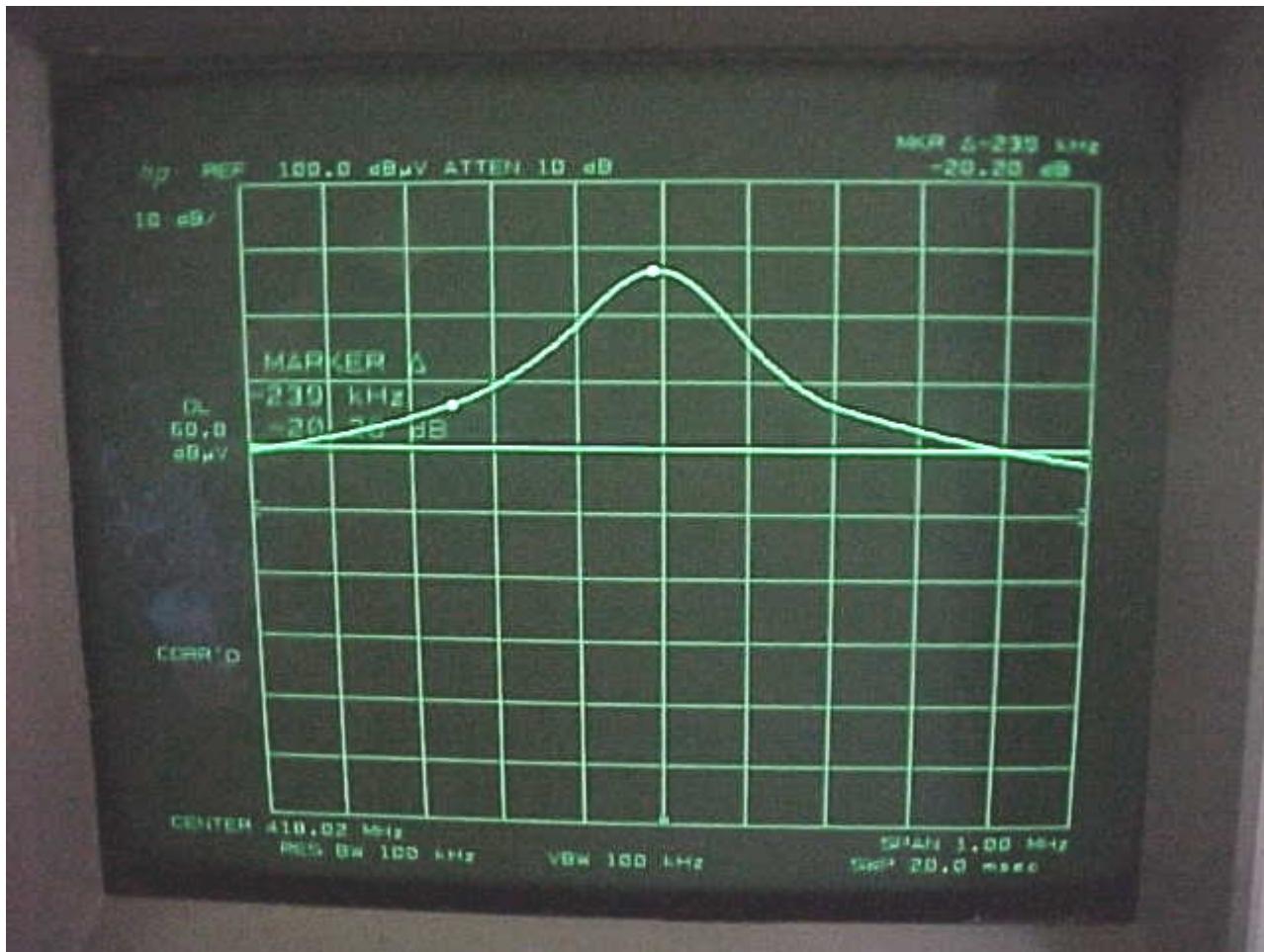
NO EMISSIONS DETECTED FROM 10 KHz to 5 GHz



-20 dB BANDWIDTH

PHOTOS

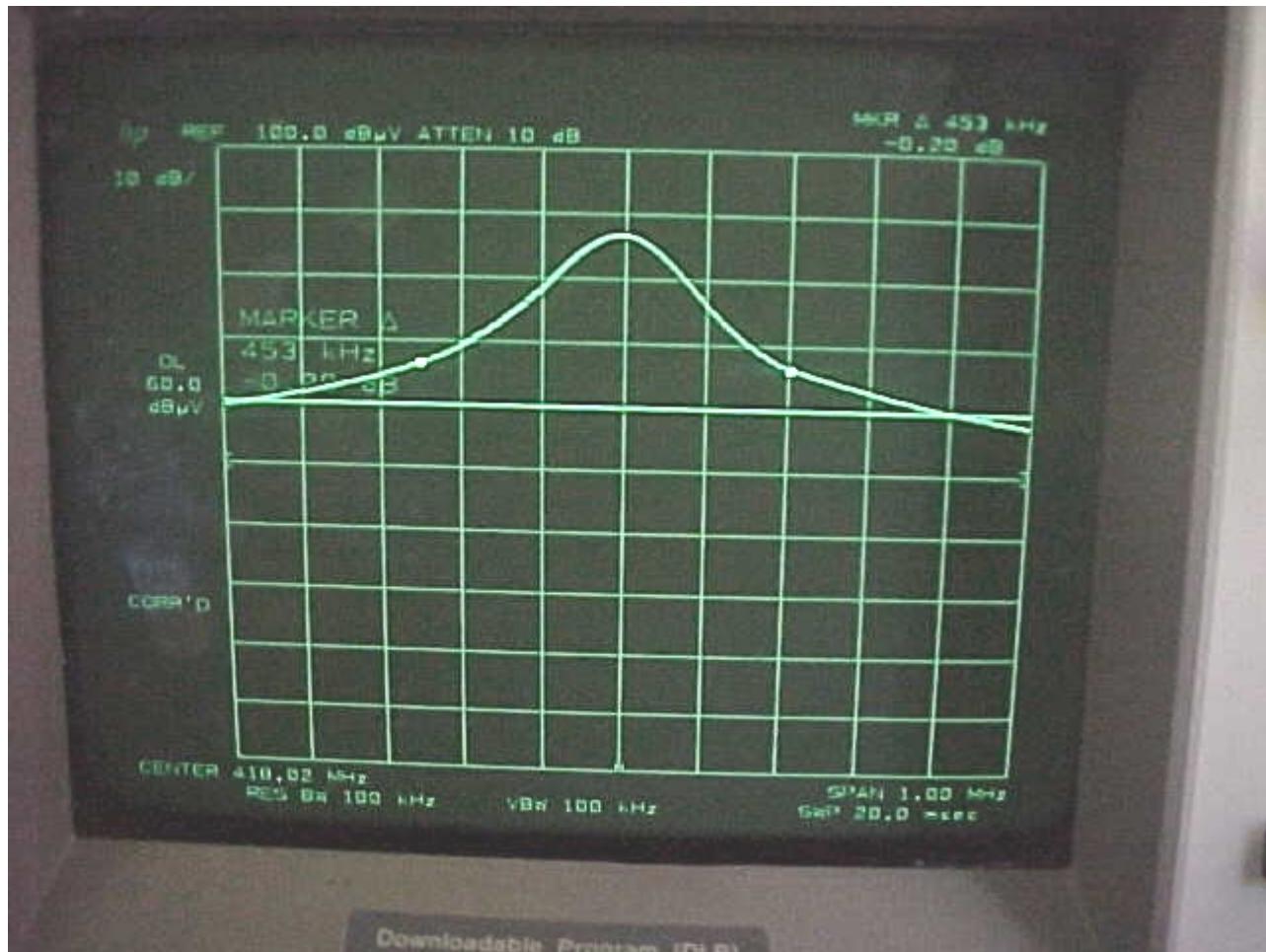




FOXPRO SYSTEMS
TRANSMITTER
MODEL NUMBER: TX5LR
FCC SUBPART B AND C - -20 dB BANDWIDTH - 07-21-04

PHOTOGRAPH SHOWING THE -20 dB BANDWIDTH



**REAR VIEW**

FOXPRO SYSTEMS
TRANSMITTER
MODEL NUMBER: TX5LR
FCC SUBPART B AND C - -20 dB BANDWIDTH - 07-21-04

PHOTOGRAPH SHOWING THE -20 dB BANDWIDTH

