FCC PART 15, SUBPART B and C
TEST REPORT

for

LIGHT CURTAIN

MODEL: MI06X

Prepared for

FarmTek, INC.
1000-D HIGHWAY 78 NORTH
WYLIE, TEXAS 75098

Prepared by:_____

KYLE FUJIMOTO

Approved by:_____

MICHAEL CHRISTENSEN

COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500

DATE: FEBRUARY 24, 2004

	REPORT BODY	APPENDICES					TOTAL
		A	***B***	***C***	***D***	***E***	
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1	Plot Map And Layout of Radiated 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:	Light Curtain Model: MI06X S/N: N/A
Product Description:	See Expository Statement
Modifications:	The EUT was not modified in order to meet the specifications.
Manufacturer:	FarmTek, Inc. 1000-D Highway 78 North Wylie, Texas 75098
Test Dates:	February 16 and 17, 2004
Test Specifications:	EMI requirements CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.249
Test Procedure:	ANSI C63.4: 2001
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 battery power only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz - 9300 MHz	Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.249.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Light Curtain Model: MI06X. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2001. 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 15.249.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 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

FarmTek, Inc.

Mike Douglas	President

Compatible Electronics, Inc.

Benigno Chavez	Test Technician
Kyle Fujimoto	Test Engineer
Michael Christensen	Sr. Test Engineer

2.4 Date Test Sample was Received

The test sample was received on February 16, 2004.

2.5 Disposition of the Test Sample

The sample has not yet been returned to FarmTek, Inc. as of February 24, 2004.

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

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 Light Curtain Model: MI06X (EUT) was tested as a stand alone device. The EUT was tested while it was continuously transmitting and in the X and Y axis. The antenna is soldered onto the PCB inside the EUT.

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

The EUT has no external cables.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
LIGHT CURTAIN (EUT)	FarmTek, INC.	MI06X	N/A	NWNMI06X

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	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 25, 2003	1 Year
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	June 25, 2003	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	June 24, 2003	1 Year
EMI Receiver	Rhode & Schwarz	ESIB40	100172	July 22, 2003	1 Year
Preamplifier	Com-Power	PA-102	1017	January 6, 2004	1 Year
Biconical Antenna	Com Power	AB-100	1548	October 8, 2003	1 Year
Log Periodic Antenna	Com Power	AL-100	16089	October 8, 2003	1 Year
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
Loop Antenna	Com-Power	AL-130	25310	June 4, 2003	1 Year
Horn Antenna	Antenna Research	DRG-118/A	1053	January 16, 2004	1 Year
Microwave Preamplifier	Com-Power	PA-122	25195	August 19, 2003	1 Year

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 from 1 GHz to 18 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
9 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 9.3 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: 2001. 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.

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.

8. CONCLUSIONS

The Light Curtain Model: MI06X 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 15.249.

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 15.249 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 during testing.

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

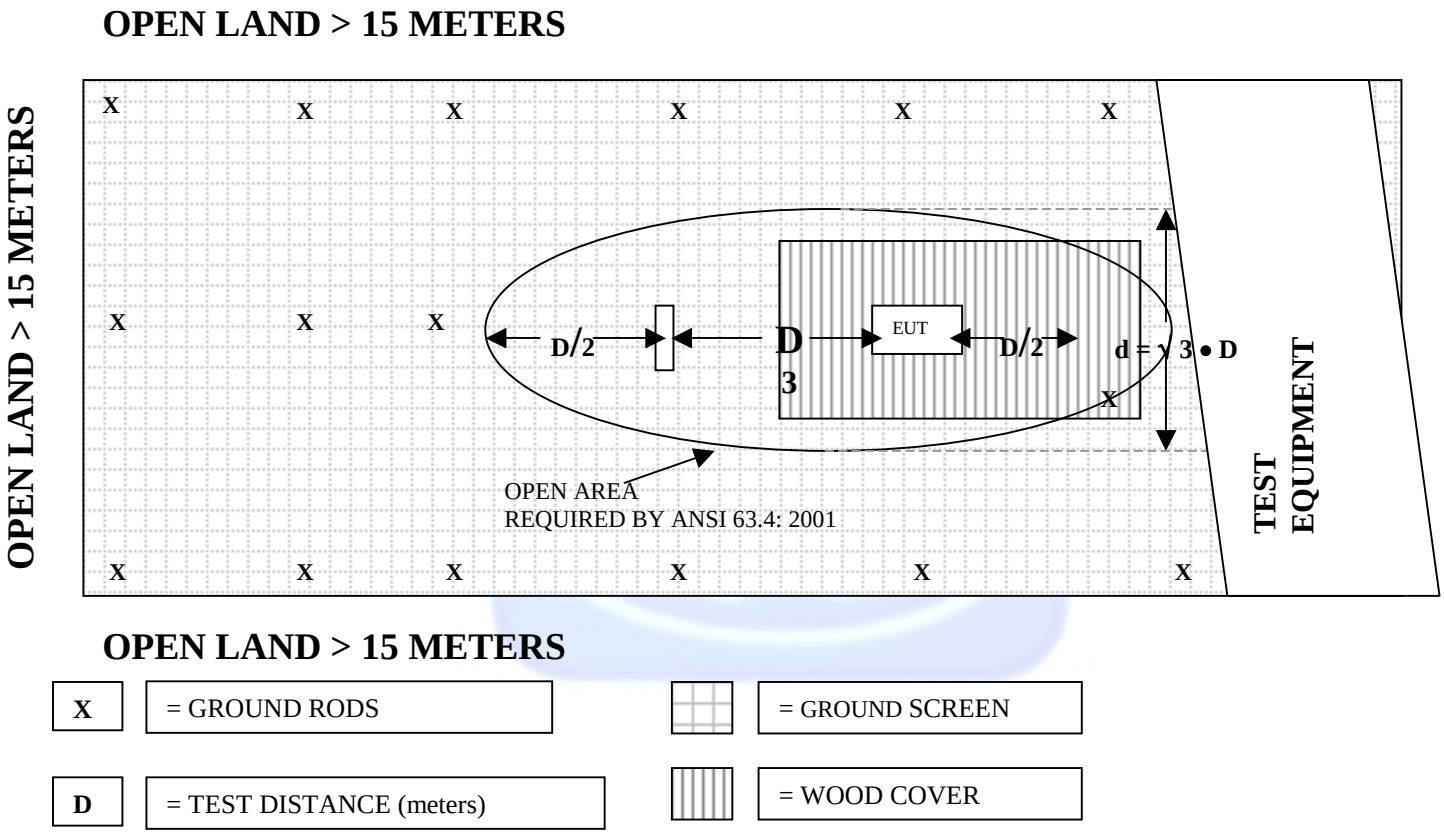
Light Curtain
Model: MI06X
S/N: N/A

There are no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE



COM-POWER AB-100

BICONICAL ANTENNA

S/N: 1548

CALIBRATION DATE: OCTOBER 8, 2003

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	13.1	120	9.9
35	12.9	125	11.4
40	14.6	140	12.0
45	12.8	150	13.0
50	12.9	160	13.9
60	9.3	175	14.2
70	8.2	180	14.3
80	8.0	200	14.9
90	8.1	250	16.6
100	8.8	300	19.7

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16089

CALIBRATION DATE: OCTOBER 8, 2003

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.8	700	20.0
400	14.4	800	21.2
500	16.0	900	20.8
600	17.7	1000	21.7

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: 25195

CALIBRATION DATE: AUGUST 19, 2003

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	30.8	6.0	33.3
1.1	30.9	6.5	32.7
1.2	30.9	7.0	31.8
1.3	30.4	7.5	31.6
1.4	30.7	8.0	30.3
1.5	31.0	8.5	29.0
1.6	31.2	9.0	29.0
1.7	30.3	9.5	29.5
1.8	28.9	10.0	30.9
1.9	31.2	11.0	30.2
2.0	30.9	12.0	28.7
2.5	30.4	13.0	30.3
3.0	31.7	14.0	28.7
3.5	32.6	15.0	29.5
4.0	32.6	16.0	31.1
4.5	32.2	17.0	30.1
5.0	31.1	18.0	28.6
5.5	30.6		

ANTENNA RESEARCH DRG-118/A

HORN ANTENNA

S/N: 1053

CALIBRATION DATE: JANUARY 16, 2004

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.4	10.0	38.7
1.5	25.2	10.5	39.0
2.0	28.2	11.0	38.9
2.5	28.5	11.5	41.3
3.0	30.1	12.0	40.5
3.5	31.0	12.5	40.0
4.0	31.2	13.0	40.2
4.5	31.9	13.5	40.5
5.0	33.2	14.0	41.6
5.5	33.7	14.5	44.8
6.0	34.3	15.0	41.4
6.5	35.0	15.5	39.2
7.0	36.7	16.0	39.4
7.5	37.3	16.5	40.9
8.0	37.1	17.0	42.6
8.5	37.3	17.5	45.1
9.0	37.7	18.0	41.7
9.5	38.6		

COM-POWER AL-130

LOOP ANTENNA

S/N: 25310

CALIBRATION DATE: JUNE 4, 2003

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.2	10.3
0.01	-41.3	10.2
0.02	-42.3	9.2
0.05	-42.5	9.0
0.07	-42.3	9.2
0.1	-42.5	9.0
0.2	-44.6	6.9
0.3	-42.1	9.4
0.5	-42.4	9.1
0.7	-42.1	9.4
1	-41.5	10.0
2	-41.0	10.5
3	-41.3	10.2
4	-41.3	10.2
5	-40.9	10.6
10	-41.6	9.9
15	-42.1	9.4
20	-42.2	9.3
25	-42.7	8.8
30	-44.3	7.2

FRONT VIEW

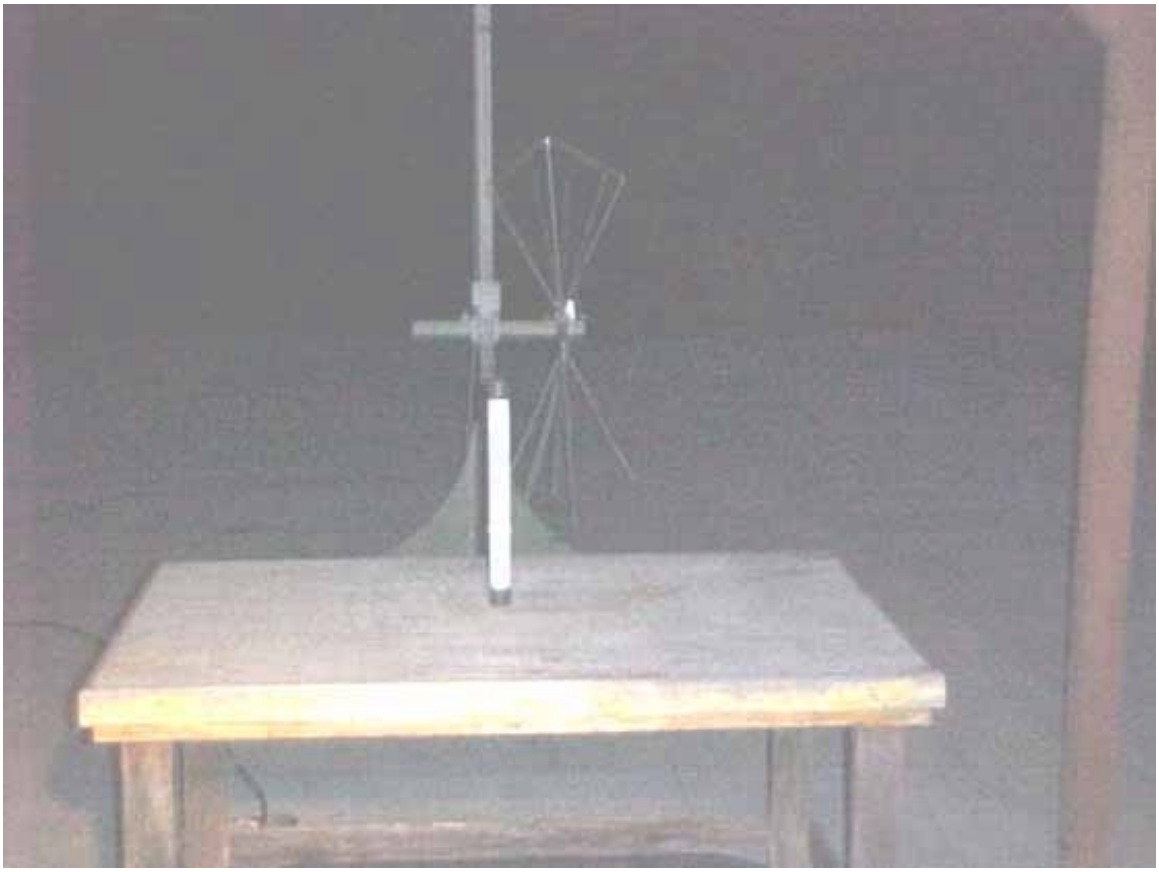
FarmTek, INC.
LIGHT CURTAIN
MODEL: MI06X
FCC SUBPART C - RADIATED EMISSIONS – 02-16-04 and 02-17-04

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

FarmTek, INC.
LIGHT CURTAIN
MODEL: MI06X
FCC SUBPART C - RADIATED EMISSIONS – 02-16-04 and 02-17-04

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



FRONT VIEW

FarmTek, INC.
LIGHT CURTAIN
MODEL: MI06X
FCC SUBPART C - RADIATED EMISSIONS – 02-17-04

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

FarmTek, INC.
LIGHT CURTAIN
MODEL: MI06X
FCC SUBPART C - RADIATED EMISSIONS – 02-17-04

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	**FarmTek, Inc.**	**DATE**	**2/16/2004**
EUT	**Light Cutrain**	**DUTY CYCLE**	**N/A %**
MODEL	**MI06X**	**PEAK TO AVG**	**N/A dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Ben Chavez**	**LAB**	**D**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
903.3000	55.3	54.4 Q	V	1.5	180	X		20.7	3.1	0.0	0.0	0.0	**78.2**	**-15.8**	**94.0**	
903.3000	55.5	54.4 Q	V	1.8	90	Y		20.7	3.1	0.0	0.0	0.0	**78.3**	**-15.7**	**94.0**	
903.3000	51.4	50.4 Q	H	1.8	315	X		20.7	3.1	0.0	0.0	0.0	**74.2**	**-19.8**	**94.0**	
903.3000	61.4	60.5 Q	H	1.0	225	Y		20.7	3.1	0.0	0.0	0.0	**84.3**	**-9.7**	**94.0**	
912.3000	56.1	55.6 Q	V	1.5	45	X		20.9	3.1	0.0	0.0	0.0	**79.6**	**-14.4**	**94.0**	
912.3000	57.4	57.1 Q	V	1.8	135	Y		20.9	3.1	0.0	0.0	0.0	**81.0**	**-13.0**	**94.0**	
912.3000	49.2	48.3 Q	H	1.5	180	X		20.9	3.1	0.0	0.0	0.0	**72.3**	**-21.7**	**94.0**	
912.3000	61.8	61.3 Q	H	1.0	225	Y		20.9	3.1	0.0	0.0	0.0	**85.3**	**-8.7**	**94.0**	
921.3000	56.8	56.1 Q	V	1.5	225	X		21.0	3.1	0.0	0.0	0.0	**80.2**	**-13.8**	**94.0**	
921.3000	56.5	56.0 Q	V	1.5	90	Y		21.0	3.1	0.0	0.0	0.0	**80.0**	**-14.0**	**94.0**	
921.3000	49.7	48.7 Q	H	1.0	180	X		21.0	3.1	0.0	0.0	0.0	**72.8**	**-21.2**	**94.0**	
921.3000	60.5	60.1 Q	H	1.0	315	Y		21.0	3.1	0.0	0.0	0.0	**84.2**	**-9.8**	**94.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
** DELTA = SPEC LIMIT - CORRECTED READING

FCC 15.249

FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Low Channel X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1806.6	48.63	V	74	-25.37	Peak	2	0	
1806.6	45.69	V	54	-8.31	Avg	2	0	
2709.9	49.01	V	74	-24.99	Peak	2.5	0	
2709.9	45.59	V	54	-8.41	Avg	2.5	0	
3613.2	48.37	V	74	-25.63	Peak	2	0	
3613.2	43.4	V	54	-10.6	Avg	2	0	
4516.5	44.54	V	74	-29.46	Peak	2.25	315	
4516.5	35.48	V	54	-18.52	Avg	2.25	315	
5419.8		V	74	-74	Peak			No Emissions
5419.8		V	54	-54	Avg			Detected
6323.1		V	74	-74	Peak			No Emissions
6323.1		V	54	-54	Avg			Detected
7226.4		V	74	-74	Peak			No Emissions
7226.4		V	54	-54	Avg			Detected
8129.7		V	74	-74	Peak			No Emissions
8129.7		V	54	-54	Avg			Detected
9033		V	74	-74	Peak			No Emissions
9033		V	54	-54	Avg			Detected

FCC 15.249

FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Low Channel Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1806.6	47.95	V	74	-26.05	Peak	2	90	
1806.6	44.56	V	54	-9.44	Avg	2	90	
2709.9	45.85	V	74	-28.15	Peak	2.25	225	
2709.9	40.98	V	54	-13.02	Avg	2.25	225	
3613.2	46.25	V	74	-27.75	Peak	2.25	225	
3613.2	40.34	V	54	-13.66	Avg	2.25	225	
4516.5	50.93	V	74	-23.07	Peak	2	45	
4516.5	45.77	V	54	-8.23	Avg	2	45	
5419.8		V	74	-74	Peak			No Emissions
5419.8		V	54	-54	Avg			Detected
6323.1		V	74	-74	Peak			No Emissions
6323.1		V	54	-54	Avg			Detected
7226.4		V	74	-74	Peak			No Emissions
7226.4		V	54	-54	Avg			Detected
8129.7		V	74	-74	Peak			No Emissions
8129.7		V	54	-54	Avg			Detected
9033		V	74	-74	Peak			No Emissions
9033		V	54	-54	Avg			Detected

FCC 15.249
FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Low Channel X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1806.6	48.18	H	74	-25.82	Peak	1.75	180	
1806.6	45.41	H	54	-8.59	Avg	1.75	180	
2709.9	44.13	H	74	-29.87	Peak	2	315	
2709.9	38.63	H	54	-15.37	Avg	2	315	
3613.2	45.14	H	74	-28.86	Peak	2	0	
3613.2	38.27	H	54	-15.73	Avg	2	0	
4516.5	48.53	H	74	-25.47	Peak	2	315	
4516.5	42.44	H	54	-11.56	Avg	2	315	
5419.8		H	74	-74	Peak			No Emissions
5419.8		H	54	-54	Avg			Detected
6323.1		H	74	-74	Peak			No Emissions
6323.1		H	54	-54	Avg			Detected
7226.4		H	74	-74	Peak			No Emissions
7226.4		H	54	-54	Avg			Detected
8129.7		H	74	-74	Peak			No Emissions
8129.7		H	54	-54	Avg			Detected
9033		H	74	-74	Peak			No Emissions
9033		H	54	-54	Avg			Detected

FCC 15.249
FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Low Channel Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1806.6	45.59	H	74	-28.41	Peak	2	180	
1806.6	42.11	H	54	-11.89	Avg	2	180	
2709.9	48.47	H	74	-25.53	Peak	2	315	
2709.9	45.37	H	54	-8.63	Avg	2	315	
3613.2	48.8	H	74	-25.2	Peak	2.25	0	
3613.2	44.48	H	54	-9.52	Avg	2.25	0	
4516.5	46.42	H	74	-27.58	Peak	2	0	
4516.5	39.13	H	54	-14.87	Avg	2	0	
5419.8		H	74	-74	Peak			No Emissions
5419.8		H	54	-54	Avg			Detected
6323.1		H	74	-74	Peak			No Emissions
6323.1		H	54	-54	Avg			Detected
7226.4		H	74	-74	Peak			No Emissions
7226.4		H	54	-54	Avg			Detected
8129.7		H	74	-74	Peak			No Emissions
8129.7		H	54	-54	Avg			Detected
9033		H	74	-74	Peak			No Emissions
9033		H	54	-54	Avg			Detected

FCC 15.249

FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Middle Channel X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1824.6	47.56	V	74	-26.44	Peak	2	180	
1824.6	45.16	V	54	-8.84	Avg	2	180	
2736.9	49.56	V	74	-24.44	Peak	2	180	
2736.9	46.52	V	54	-7.48	Avg	2	180	
3649.2	48.36	V	74	-25.64	Peak	2	180	
3649.2	43.75	V	54	-10.25	Avg	2	180	
4561.5	44.82	V	74	-29.18	Peak	2.25	315	
4561.5	35.33	V	54	-18.67	Avg	2.25	315	
5473.8		V	74	-74	Peak			No Emissions
5473.8		V	54	-54	Avg			Detected
6386.1		V	74	-74	Peak			No Emissions
6386.1		V	54	-54	Avg			Detected
7298.4		V	74	-74	Peak			No Emissions
7298.4		V	54	-54	Avg			Detected
8210.7		V	74	-74	Peak			No Emissions
8210.7		V	54	-54	Avg			Detected
9123		V	74	-74	Peak			No Emissions
9123		V	54	-54	Avg			Detected

FCC 15.249

FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Middle Channel Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1824.6	48.74	V	74	-25.26	Peak	1.75	90	
1824.6	45.48	V	54	-8.52	Avg	1.75	90	
2736.9	45.82	V	74	-28.18	Peak	2.25	270	
2736.9	41.06	V	54	-12.94	Avg	2.25	270	
3649.2	46.21	V	74	-27.79	Peak	2.25	180	
3649.2	39.68	V	54	-14.32	Avg	2.25	180	
4561.5	49.21	V	74	-24.79	Peak	2.25	45	
4561.5	43.27	V	54	-10.73	Avg	2.25	45	
5473.8		V	74	-74	Peak			No Emissions
5473.8		V	54	-54	Avg			Detected
6386.1		V	74	-74	Peak			No Emissions
6386.1		V	54	-54	Avg			Detected
7298.4		V	74	-74	Peak			No Emissions
7298.4		V	54	-54	Avg			Detected
8210.7		V	74	-74	Peak			No Emissions
8210.7		V	54	-54	Avg			Detected
9123		V	74	-74	Peak			No Emissions
9123		V	54	-54	Avg			Detected

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FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Middle Channel X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1824.6	50.58	H	74	-23.42	Peak	2	180	
1824.6	48.39	H	54	-5.61	Avg	2	180	
2736.9	43.69	H	74	-30.31	Peak	1.75	0	
2736.9	37.96	H	54	-16.04	Avg	1.75	0	
3649.2	44.61	H	74	-29.39	Peak	2.25	0	
3649.2	37.67	H	54	-16.33	Avg	2.25	0	
4561.5	49.83	H	74	-24.17	Peak	1.75	0	
4561.5	43.96	H	54	-10.04	Avg	1.75	0	
5473.8		H	74	-74	Peak			No Emissions
5473.8		H	54	-54	Avg			Detected
6386.1		H	74	-74	Peak			No Emissions
6386.1		H	54	-54	Avg			Detected
7298.4		H	74	-74	Peak			No Emissions
7298.4		H	54	-54	Avg			Detected
8210.7		H	74	-74	Peak			No Emissions
8210.7		H	54	-54	Avg			Detected
9123		H	74	-74	Peak			No Emissions
9123		H	54	-54	Avg			Detected

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FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Middle Channel Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1824.6	49.02	H	74	-24.98	Peak	2	270	
1824.6	46.47	H	54	-7.53	Avg	2	270	
2736.9	47.14	H	74	-26.86	Peak	2.25	270	
2736.9	43.49	H	54	-10.51	Avg	2.25	270	
3649.2	48.93	H	74	-25.07	Peak	2.25	0	
3649.2	44.51	H	54	-9.49	Avg	2.25	0	
4561.5	46.56	H	74	-27.44	Peak	2	0	
4561.5	38.92	H	54	-15.08	Avg	2	0	
5473.8		H	74	-74	Peak			No Emissions
5473.8		H	54	-54	Avg			Detected
6386.1		H	74	-74	Peak			No Emissions
6386.1		H	54	-54	Avg			Detected
7298.4		H	74	-74	Peak			No Emissions
7298.4		H	54	-54	Avg			Detected
8210.7		H	74	-74	Peak			No Emissions
8210.7		H	54	-54	Avg			Detected
9123		H	74	-74	Peak			No Emissions
9123		H	54	-54	Avg			Detected

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FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

High Channel X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1842.6	45.87	V	74	-28.13	Peak	2	180	
1842.6	42.61	V	54	-11.39	Avg	2	180	
2763.9	48.04	V	74	-25.96	Peak	2	180	
2763.9	44.55	V	54	-9.45	Avg	2	180	
3685.2	48.07	V	74	-25.93	Peak	2	315	
3685.2	43.22	V	54	-10.78	Avg	2	315	
4606.5	43.52	V	74	-30.48	Peak	1.75	315	
4606.5	33.94	V	54	-20.06	Avg	1.75	315	
5527.8		V	74	-74	Peak			No Emissions
5527.8		V	54	-54	Avg			Detected
6449.1		V	74	-74	Peak			No Emissions
6449.1		V	54	-54	Avg			Detected
7370.4		V	74	-74	Peak			No Emissions
7370.4		V	54	-54	Avg			Detected
8291.7		V	74	-74	Peak			No Emissions
8291.7		V	54	-54	Avg			Detected
9213		V	74	-74	Peak			No Emissions
9213		V	54	-54	Avg			Detected

FCC 15.249

FarmTek, Inc. Date: 2/16/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

High Channel Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1842.6	48.31	V	74	-25.69	Peak	2	270	
1842.6	45.45	V	54	-8.55	Avg	2	270	
2763.9	45.73	V	74	-28.27	Peak	2	225	
2763.9	41.18	V	54	-12.82	Avg	2	225	
3685.2	45.49	V	74	-28.51	Peak	1.75	225	
3685.2	39.51	V	54	-14.49	Avg	1.75	225	
4606.5	49.98	V	74	-24.02	Peak	2	315	
4606.5	44.02	V	54	-9.98	Avg	2	315	
5527.8		V	74	-74	Peak			No Emissions
5527.8		V	54	-54	Avg			Detected
6449.1		V	74	-74	Peak			No Emissions
6449.1		V	54	-54	Avg			Detected
7370.4		V	74	-74	Peak			No Emissions
7370.4		V	54	-54	Avg			Detected
8291.7		V	74	-74	Peak			No Emissions
8291.7		V	54	-54	Avg			Detected
9213		V	74	-74	Peak			No Emissions
9213		V	54	-54	Avg			Detected

FCC 15.249
FarmTek, Inc. Date: 2/17/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

High Channel X-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1842.6	51.12	H	74	-22.88	Peak	2	135	
1842.6	48.96	H	54	-5.04	Avg	2	135	
2763.9	43.64	H	74	-30.36	Peak	2	315	
2763.9	37.78	H	54	-16.22	Avg	2	315	
3685.2	45.23	H	74	-28.77	Peak	2.25	315	
3685.2	38.9	H	54	-15.1	Avg	2.25	315	
4606.5	48.68	H	74	-25.32	Peak	1.75	0	
4606.5	42.45	H	54	-11.55	Avg	1.75	0	
5527.8		H	74	-74	Peak			No Emissions
5527.8		H	54	-54	Avg			Detected
6449.1		H	74	-74	Peak			No Emissions
6449.1		H	54	-54	Avg			Detected
7370.4		H	74	-74	Peak			No Emissions
7370.4		H	54	-54	Avg			Detected
8291.7		H	74	-74	Peak			No Emissions
8291.7		H	54	-54	Avg			Detected
9213		H	74	-74	Peak			No Emissions
9213		H	54	-54	Avg			Detected

FCC 15.249
FarmTek, Inc. Date: 2/17/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

High Channel Y-Axis
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1842.6	49.77	H	74	-24.23	Peak	2	0	
1842.6	47.59	H	54	-6.41	Avg	2	0	
2763.9	48.37	H	74	-25.63	Peak	2.25	0	
2763.9	44.87	H	54	-9.13	Avg	2.25	0	
3685.2	50.58	H	74	-23.42	Peak	2.25	0	
3685.2	46.14	H	54	-7.86	Avg	2.25	0	
4606.5	45.61	H	74	-28.39	Peak	2.25	90	
4606.5	37.78	H	54	-16.22	Avg	2.25	90	
5527.8		H	74	-74	Peak			No Emissions
5527.8		H	54	-54	Avg			Detected
6449.1		H	74	-74	Peak			No Emissions
6449.1		H	54	-54	Avg			Detected
7370.4		H	74	-74	Peak			No Emissions
7370.4		H	54	-54	Avg			Detected
8291.7		H	74	-74	Peak			No Emissions
8291.7		H	54	-54	Avg			Detected
9213		H	74	-74	Peak			No Emissions
9213		H	54	-54	Avg			Detected

FCC Subpart B Class B

FarmTek, Inc. Date: 2/17/04
Light Curtain Lab: B
Model: MI06X Tested By: Ben Chavez
Configuration: Tx mode

Emissions from the Digital Portion 10 kHz to 9300 MHz
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions
								Detected