

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

for

LONG-RANGE HANDHELD TRANSMITTER

P/N: OTX-xxx-HH-LR8-HS

Prepared for

LINX TECHNOLOGIES
159 ORT LANE
MERLIN, OREGON 97532

Prepared by: _____

KYLE FUJIMOTO

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DATE: FEBRUARY 16, 2007

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
PAGES	16	2	2	2	12	27	61

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TABLE OF CONTENTS

Section / Title	PAGE
<i>GENERAL REPORT SUMMARY</i>	<i>4</i>
<i>SUMMARY OF TEST RESULTS</i>	<i>4</i>
1. PURPOSE	5
2. ADMINISTRATIVE DATA	6
2.1 Location of Testing	6
2.2 Traceability Statement	6
2.3 Cognizant Personnel	6
2.4 Date Test Sample was Received	6
2.5 Disposition of the Test Sample	6
2.6 Abbreviations and Acronyms	6
3. APPLICABLE DOCUMENTS	7
4. DESCRIPTION OF TEST CONFIGURATION	8
4.1 Description Of Test Configuration - EMI	8
4.1.1 Cable Construction and Termination	9
5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT	10
5.1 EUT and Accessory List	10
5.2 EMI Test Equipment	11
6. TEST SITE DESCRIPTION	12
6.1 Test Facility Description	12
6.2 EUT Mounting, Bonding and Grounding	12
7. TEST PROCEDURES	13
7.1 Radiated Emissions (Spurious and Harmonics) Test	13
7.2 Radiated Emissions (Spurious and Harmonics) Test (continued)	14
7.3 Bandwidth of the Fundamental	15
8. CONCLUSIONS	16

LIST OF APPENDICES

APPENDIX	TITLE
A	Laboratory Recognitions
B	Modifications to the EUT
C	Additional Models Covered Under This Report
D	Diagrams, Charts, and Photos • Test Setup Diagrams • Radiated Emissions Photos • Antenna and Effective Gain Factors
E	Data Sheets

LIST OF FIGURES

FIGURE	TITLE
1	Plot Map And Layout of 3 Meter 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: Long-Range Handheld Transmitter
P/N: OTX-xxx-HH-LR8-HS
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was modified in order to meet the specifications. Please see the list located in Appendix B.

Manufacturer: Linx Technologies
159 Ort Lane
Merlin, Oregon 97532

Test Dates: December 28, 2006 and January 2, 2007

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

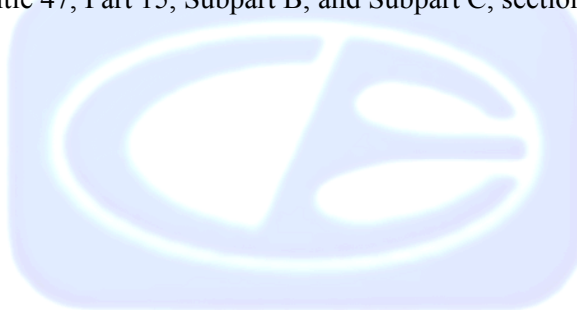
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	This test was not performed because the EUT is battery powered only and does not connect to the AC public mains.
2	Radiated RF Emissions, 9 kHz – 4400 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 Long-Range Handheld Transmitter, P/N: OTX-xxx-HH-LR8-HS. 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, 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

Linx Technologies

Paul True	President
Justin Hopper	Engineer

Compatible Electronics, Inc.

Kyle Fujimoto	Test Engineer
James Ross	Test Engineer

2.4 Date Test Sample was Received

The test sample was received on December 26, 2006

2.5 Disposition of the Test Sample

The sample has not been returned to Linx Technologies as of April 10, 2007.

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

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 2003	American National Standard for 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 Long-Range Handheld Transmitter P/N: OTX-xxx-HH-LR8-HS (EUT) was tested as a stand alone unit and tested in three orthogonal axis. The EUT was continuously transmitting

The antenna is directly connected to the PCB via a screw.

After the EUT is activated by pressing the button, the transmission will cease operation immediately once the button is released.

The EUT comes in three different versions, the 315 MHz version, the 418 MHz version, and the 433.92 MHz version.

Each version of the transmitter was tested separately.

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 were no external cables connected to the EUT.



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

EQUIPMENT	MANUFACTURER	PART NUMBER	SERIAL NUMBER	FCC ID
LONG-RANGE HANDHELD TRANSMITTER (EUT)	LINX TECHNOLOGIES	OTX-xxx-HH-LR8-HS	N/A	OJM-OTX-XXX-LRHSA

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
EMI Receiver	Rohde & Schwarz	ESIB40	100194	November 18, 2005	Nov. 18, 2007
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Loop Antenna	Com-Power	AL-130	17089	September 21, 2005	Sept. 21, 2007
Preamplifier	Com Power	PA-103	1582	January 19, 2006	Jan. 19, 2007
Biconical Antenna	Com Power	AB-900	15251	March 9, 2006	March 9, 2007
Log Periodic Antenna	Com Power	AL-100	16247	July 17, 2006	July 17, 2007
Horn Antenna	Antenna Research	DRG-118/A	1053	March 6, 2006	March 6, 2008
Microwave Preamplifier	Com Power	PA-122	181917	January 20, 2006	Jan. 20, 2007
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A

6. TEST SITE DESCRIPTION

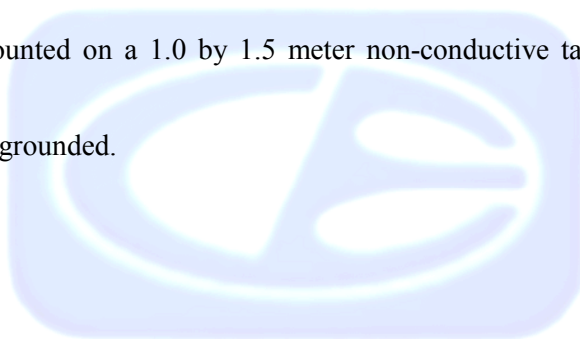
6.1 Test Facility Description

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 EMI Receiver 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 4.4 GHz. The EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

The readings were averaged by a "duty cycle correction factor", derived from $20 \log$ (dwell time / one pulse train with blanking interval).

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 4.4 GHz	1 MHz	Horn Antenna

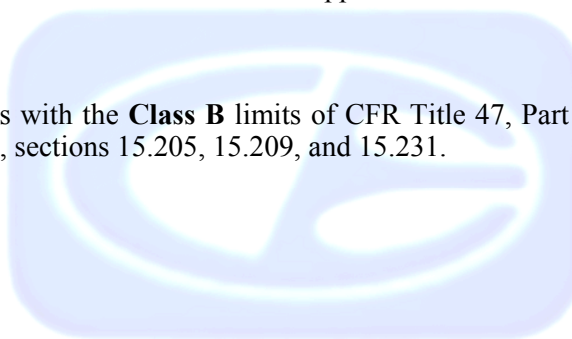
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. 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.

7.2 Radiated Emissions (Spurious and Harmonics) Test (continued)

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.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.



7.3 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. Plots of the -20 dB bandwidth are located in Appendix E.

Test Results:

The EUT complies with the requirements of CFR Title 47, Part 15, Subpart C, section 15.231 (c) for the -20 dB bandwidth of the fundamental. The EUT has a -20dB bandwidth that is less than 0.25% of frequency of the fundamental.



8. CONCLUSIONS

The Long-Range Handheld Transmitter, P/N: OTX-xxx-HH-LR8-HS 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

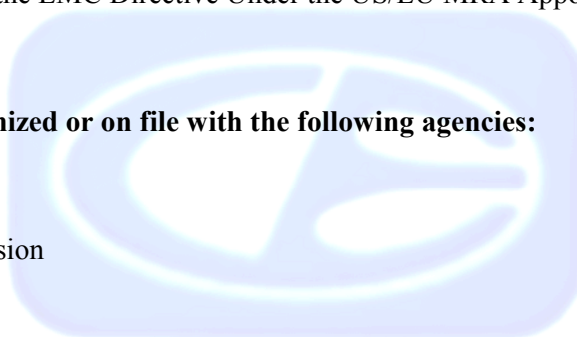
Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

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

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)



APPENDIX B

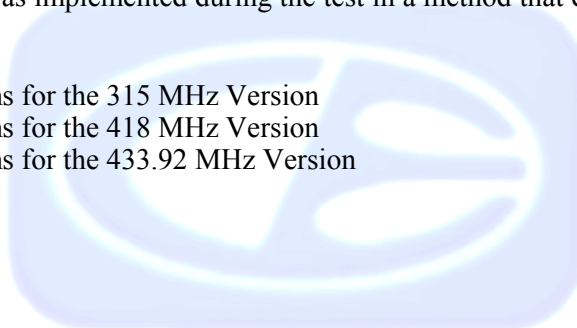
MODIFICATIONS TO THE EUT

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.

- 1) Change R13 to 2200 Ohms for the 315 MHz Version
- 2) Change R13 to 1500 Ohms for the 418 MHz Version
- 3) Change R13 to 1200 Ohms for the 433.92 MHz Version



APPENDIX C

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

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Long-Range Handheld Transmitter
P/N: OTX-xxx-HH-LR8-HS
S/N: N/A

There were no additional models covered under this report.

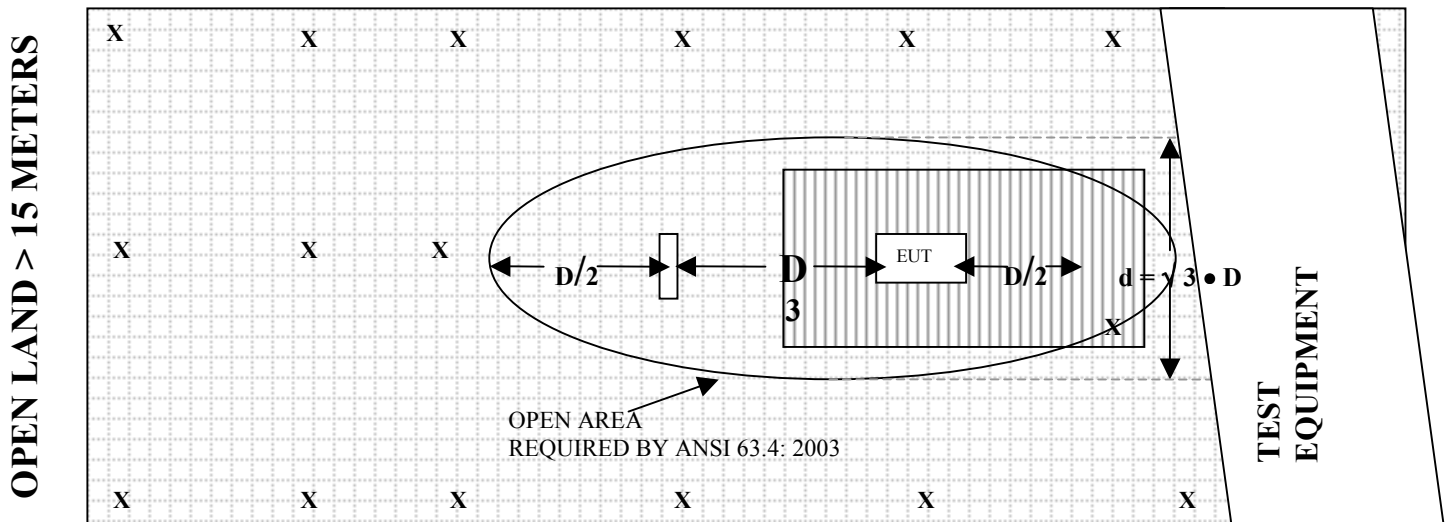


APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF 3 METER RADIATED SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X	= GROUND RODS		= GROUND SCREEN
D	= TEST DISTANCE (meters)		= WOOD COVER

COM-POWER AB-900**BICONICAL ANTENNA****S/N: 15251****CALIBRATION DATE: MARCH 9, 2006**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.27	120	13.04
35	10.29	125	12.67
40	9.72	140	11.91
45	11.45	150	11.61
50	13.34	160	13.67
60	11.44	175	15.97
70	8.41	180	16.64
80	6.21	200	16.54
90	7.5	250	16.96
100	11.65	300	17.48

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16247

CALIBRATION DATE: JULY 17, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.66	700	20.25
400	14.82	800	19.73
500	15.37	900	22.09
600	17.38	1000	22.85

COM-POWER PA-103**PREAMPLIFIER**

S/N: 1582

CALIBRATION DATE: JANUARY 19, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	32.7	300	32.4
40	32.6	350	32.4
50	32.6	400	32.1
60	32.8	450	32.1
70	32.7	500	31.8
80	32.7	550	31.8
90	32.7	600	32.0
100	32.6	650	31.9
125	32.6	700	31.5
150	32.5	750	31.7
175	32.4	800	31.4
200	32.5	850	31.6
225	32.5	900	30.8
250	32.3	950	31.1
275	32.4	1000	30.9

COM-POWER PA-122**PREAMPLIFIER**

S/N: 181917

CALIBRATION DATE: JANUARY 20, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	34.697	10.0	36.558
1.5	33.817	10.5	35.048
2.0	33.587	11.0	33.258
2.5	33.804	11.5	32.960
3.0	33.850	12.0	33.312
3.5	33.943	12.5	33.836
4.0	34.399	13.0	34.178
4.5	34.847	13.5	34.197
5.0	35.172	14.0	33.769
5.5	35.383	14.5	33.392
6.0	35.539	15.0	33.387
6.5	34.802	15.5	34.038
7.0	33.793	16.0	34.884
7.5	33.511	16.5	35.740
8.0	33.910	17.0	35.341
8.5	34.907	17.5	34.729
9.0	36.036	18.0	33.760
9.5	36.661		

ANTENNA RESEARCH DRG-118/A**HORN ANTENNA**

S/N: 1053

CALIBRATION DATE: MARCH 6, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.46	10.0	39.55
1.5	25.05	10.5	39.86
2.0	28.42	11.0	38.49
2.5	29.91	11.5	40.71
3.0	31.46	12.0	40.59
3.5	31.91	12.5	40.17
4.0	31.55	13.0	39.70
4.5	31.94	13.5	40.84
5.0	32.90	14.0	41.58
5.5	34.07	14.5	45.14
6.0	35.69	15.0	42.20
6.5	33.11	15.5	39.42
7.0	36.51	16.0	38.80
7.5	37.27	16.5	41.08
8.0	37.21	17.0	44.11
8.5	37.16	17.5	46.29
9.0	38.27	18.0	41.61
9.5	39.73		

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 21, 2005

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-42.84	8.66
0.01	-41.93	9.57
0.02	-41.29	10.21
0.05	-42.37	9.13
0.07	-41.8	9.7
0.1	-41.83	9.67
0.2	-44.13	7.37
0.3	-41.73	9.77
0.5	-41.8	9.7
0.7	-41.53	9.97
1	-41.46	10.04
2	-41.14	10.36
3	-41.26	10.24
4	-41.46	10.04
5	-41.10	10.40
10	-40.83	10.67
15	-41.47	10.03
20	-35.44	16.06
25	-42.37	9.13
30	-42.94	8.56



FRONT VIEW

LINX TECHNOLOGIES
LONG-RANGE HANDHELD TRANSMITTER
P/N: OTX-xxx-HH-LR8-HS

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB B

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

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

LINX TECHNOLOGIES
LONG-RANGE HANDHELD TRANSMITTER

P/N: OTX-xxx-HH-LR8-HS

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB B

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

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

LINX TECHNOLOGIES
LONG-RANGE HANDHELD TRANSMITTER
P/N: OTX-xxx-HH-LR8-HS

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB A

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

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

LINX TECHNOLOGIES
LONG-RANGE HANDHELD TRANSMITTER
P/N: OTX-xxx-HH-LR8-HS

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB A

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

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 48.616%

R13 = 2200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
315	67.49	V	95.6	-28.11	Peak	1	135	
315	61.23	V	75.6	-14.37	Avg	1	135	
630	26.81	V	75.6	-48.79	Peak	1.15	180	
630	20.55	V	55.6	-35.05	Avg	1.15	180	
945	32.85	V	75.6	-42.75	Peak	1	90	
945	26.59	V	55.6	-29.01	Avg	1	90	
1260	29.99	V	74	-44.01	Peak	3.76	135	
1260	23.73	V	54	-30.27	Avg	3.76	135	
1575	37.24	V	74	-36.76	Peak	2.62	225	
1575	30.98	V	54	-23.02	Avg	2.62	225	
1890		V	75.6	-75.6	Peak			No Emissions
1890		V	55.6	-55.6	Avg			Detected
2205		V	74	-74	Peak			No Emissions
2205		V	54	-54	Avg			Detected
2520		V	75.6	-75.6	Peak			No Emissions
2520		V	55.6	-55.6	Avg			Detected
2835		V	74	-74	Peak			No Emissions
2835		V	54	-54	Avg			Detected
3150		V	75.6	-75.6	Peak			No Emissions
3150		V	55.6	-55.6	Avg			Detected

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 48.616%

R13 = 2200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
315	81.19	H	95.6	-14.41	Peak	1	90	
315	74.93	H	75.6	-0.67	Avg	1	90	
630	37.31	H	75.6	-38.29	Peak	1	90	
630	31.05	H	55.6	-24.55	Avg	1	90	
945	35.35	H	75.6	-40.25	Peak	1	135	
945	29.09	H	55.6	-26.51	Avg	1	135	
1260	29.05	H	74	-44.95	Peak	3.44	135	
1260	22.79	H	54	-31.21	Avg	3.44	135	
1575	38.16	H	74	-35.84	Peak	3.21	135	
1575	31.9	H	54	-22.1	Avg	3.21	135	
1890	32.03	H	75.6	-43.57	Peak	3.21	135	
1890	25.77	H	55.6	-29.83	Avg	3.21	135	
2205		H	74	-74	Peak			No Emissions
2205		H	54	-54	Avg			Detected
2520		H	75.6	-75.6	Peak			No Emissions
2520		H	55.6	-55.6	Avg			Detected
2835		H	74	-74	Peak			No Emissions
2835		H	54	-54	Avg			Detected
3150		H	75.6	-75.6	Peak			No Emissions
3150		H	55.6	-55.6	Avg			Detected

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 48.616%

R13 = 2200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
315	77.89	V	95.6	-17.71	Peak	1.5	135	
315	71.63	V	75.6	-3.97	Avg	1.5	135	
630	32.81	V	75.6	-42.79	Peak	1	180	
630	26.55	V	55.6	-29.05	Avg	1	180	
945	31.15	V	75.6	-44.45	Peak	1	90	
945	24.89	V	55.6	-30.71	Avg	1	90	
1260	31.07	V	74	-42.93	Peak	3.51	225	
1260	24.81	V	54	-29.19	Avg	3.51	225	
1575	42.21	V	74	-31.79	Peak	3.43	135	
1575	35.95	V	54	-18.05	Avg	3.43	135	
1890	33.86	V	75.6	-41.74	Peak	2.93	135	
1890	27.6	V	55.6	-28	Avg	2.93	135	
2205	36.11	V	74	-37.89	Peak	2.67	135	
2205	29.85	V	54	-24.15	Avg	2.67	135	
2520		V	75.6	-75.6	Peak			No Emissions
2520		V	55.6	-55.6	Avg			Detected
2835		V	74	-74	Peak			No Emissions
2835		V	54	-54	Avg			Detected
3150		V	75.6	-75.6	Peak			No Emissions
3150		V	55.6	-55.6	Avg			Detected

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 48.616%

R13 = 2200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
315	66.99	H	95.6	-28.61	Peak	1	90	
315	60.73	H	75.6	-14.87	Avg	1	90	
630	26.51	H	75.6	-49.09	Peak	1	135	
630	20.25	H	55.6	-35.35	Avg	1	135	
945	30.65	H	75.6	-44.95	Peak	1	180	
945	24.39	H	55.6	-31.21	Avg	1	180	
1260	29.21	H	74	-44.79	Peak	2.55	135	
1260	22.95	H	54	-31.05	Avg	2.55	135	
1575	32.91	H	74	-41.09	Peak	3.44	135	
1575	26.65	H	54	-27.35	Avg	3.44	135	
1890	32.06	H	75.6	-43.54	Peak	3.44	135	
1890	25.8	H	55.6	-29.8	Avg	3.44	135	
2205	37.51	H	74	-36.49	Peak	3.44	135	
2205	31.25	H	54	-22.75	Avg	3.44	135	
2520		H	75.6	-75.6	Peak			No Emissions
2520		H	55.6	-55.6	Avg			Detected
2835		H	74	-74	Peak			No Emissions
2835		H	54	-54	Avg			Detected
3150		H	75.6	-75.6	Peak			No Emissions
3150		H	55.6	-55.6	Avg			Detected

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 48.616%

R13 = 2200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
315	70.79	V	95.6	-24.81	Peak	1	90	
315	64.53	V	75.6	-11.07	Avg	1	90	
630	27.31	V	75.6	-48.29	Peak	1	135	
630	21.05	V	55.6	-34.55	Avg	1	135	
945	30.95	V	75.6	-44.65	Peak	1	135	
945	24.69	V	55.6	-30.91	Avg	1	135	
1260	31.28	V	74	-42.72	Peak	3.52	135	
1260	25.02	V	54	-28.98	Avg	3.52	135	
1575	37.33	V	74	-36.67	Peak	3.21	135	
1575	31.07	V	54	-22.93	Avg	3.21	135	
1890	33.39	V	75.6	-42.21	Peak	3.21	135	
1890	27.13	V	55.6	-28.47	Avg	3.21	135	
2205		V	74	-74	Peak			No Emissions
2205		V	54	-54	Avg			Detected
2520		V	75.6	-75.6	Peak			No Emissions
2520		V	55.6	-55.6	Avg			Detected
2835		V	74	-74	Peak			No Emissions
2835		V	54	-54	Avg			Detected
3150		V	75.6	-75.6	Peak			No Emissions
3150		V	55.6	-55.6	Avg			Detected

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 48.616%

R13 = 2200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
315	79.59	H	95.6	-16.01	Peak	1	135	
315	73.33	H	75.6	-2.27	Avg	1	135	
630	33.81	H	75.6	-41.79	Peak	1	90	
630	27.55	H	55.6	-28.05	Avg	1	90	
945	35.75	H	75.6	-39.85	Peak	1.15	135	
945	29.49	H	55.6	-26.11	Avg	1.15	135	
1260	29.41	H	74	-44.59	Peak	2.69	135	
1260	23.15	H	54	-30.85	Avg	2.69	135	
1575	35.75	H	74	-38.25	Peak	2.71	135	
1575	29.49	H	54	-24.51	Avg	2.71	135	
1890	32.46	H	75.6	-43.14	Peak	2.71	135	
1890	26.2	H	55.6	-29.4	Avg	2.71	135	
2205	35.42	H	74	-38.58	Peak	2.71	135	
2205	29.16	H	54	-24.84	Avg	2.71	135	
2520	36.07	H	75.6	-39.53	Peak	2.71	135	
2520	29.81	H	55.6	-25.79	Avg	2.71	135	
2835		H	74	-74	Peak			No Emissions
2835		H	54	-54	Avg			Detected
3150		H	75.6	-75.6	Peak			No Emissions
3150		H	55.6	-55.6	Avg			Detected

Linx Technologies
Long-Range Handheld Transmitter
P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
Labs: A and B
Tested By: Kyle Fujimoto

Digital Portion and Non-Harmonic Emissions from the Tx -- 9 kHz to 3200 MHz

[illegible]

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 48.616%

R13 = 1500 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	72.22	V	100.28	-28.06	Peak	1	135	
418	65.96	V	80.28	-14.32	Avg	1	135	
836	31.55	V	80.28	-48.73	Peak	1	90	
836	25.29	V	60.28	-34.99	Avg	1	90	
1254	31.91	V	74	-42.09	Peak	3.21	135	
1254	25.65	V	54	-28.35	Avg	3.21	135	
1672	42.26	V	74	-31.74	Peak	3.67	135	
1672	36	V	54	-18	Avg	3.67	135	
2090	38.52	V	80.28	-41.76	Peak	2.42	135	
2090	32.26	V	60.28	-28.02	Avg	2.42	135	
2508	35.83	V	80.28	-44.45	Peak	2.42	125	
2508	29.57	V	60.28	-30.71	Avg	2.42	125	
2926	37.69	V	80.28	-42.59	Peak	2.82	135	
2926	31.43	V	60.28	-28.85	Avg	2.82	135	
3344	38.26	V	80.28	-42.02	Peak	2.82	135	
3344	32	V	60.28	-28.28	Avg	2.82	135	
3762	39.64	V	74	-34.36	Peak	2.82	125	
3762	33.38	V	54	-20.62	Avg	2.82	125	
4180	39.58	V	74	-34.42	Peak	2.67	135	
4180	33.32	V	54	-20.68	Avg	2.67	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 48.616%

R13 = 1500 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	85.22	H	100.28	-15.06	Peak	1	135	
418	78.96	H	80.28	-1.32	Avg	1	135	
836	38.9	H	80.28	-41.38	Peak	1.5	90	
836	32.64	H	60.28	-27.64	Avg	1.5	90	
1254	34.48	H	74	-39.52	Peak	2.55	135	
1254	28.22	H	54	-25.78	Avg	2.55	135	
1672	46.02	H	74	-27.98	Peak	2.11	135	
1672	39.76	H	54	-14.24	Avg	2.11	135	
2090	37.03	H	80.28	-43.25	Peak	3.11	135	
2090	30.77	H	60.28	-29.51	Avg	3.11	135	
2508	37.34	H	80.28	-42.94	Peak	2.67	135	
2508	31.08	H	60.28	-29.2	Avg	2.67	135	
2926	37.48	H	80.28	-42.8	Peak	2.67	135	
2926	31.22	H	60.28	-29.06	Avg	2.67	135	
3344	37.78	H	80.28	-42.5	Peak	2.26	135	
3344	31.52	H	60.28	-28.76	Avg	2.26	135	
3762	39.73	H	74	-34.27	Peak	2.26	125	
3762	33.47	H	54	-20.53	Avg	2.26	125	
4180	42.11	H	74	-31.89	Peak	3.54	135	
4180	35.85	H	54	-18.15	Avg	3.54	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 48.616%

R13 = 1500 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	84.72	V	100.28	-15.56	Peak	1	90	
418	78.46	V	80.28	-1.82	Avg	1	90	
836	37.7	V	80.28	-42.58	Peak	1.35	90	
836	31.44	V	60.28	-28.84	Avg	1.35	90	
1254	35.22	V	74	-38.78	Peak	2.69	135	
1254	28.96	V	54	-25.04	Avg	2.69	135	
1672	46.41	V	74	-27.59	Peak	3.25	135	
1672	40.15	V	54	-13.85	Avg	3.25	135	
2090	40.77	V	80.28	-39.51	Peak	2.21	135	
2090	34.51	V	60.28	-25.77	Avg	2.21	135	
2508	34.93	V	80.28	-45.35	Peak	2.74	135	
2508	28.67	V	60.28	-31.61	Avg	2.74	135	
2926	41.36	V	80.28	-38.92	Peak	2.98	135	
2926	35.1	V	60.28	-25.18	Avg	2.98	135	
3344	40.71	V	80.28	-39.57	Peak	2.55	125	
3344	34.45	V	60.28	-25.83	Avg	2.55	125	
3762	40.04	V	74	-33.96	Peak	2.44	135	
3762	33.78	V	54	-20.22	Avg	2.44	135	
4180	43.03	V	74	-30.97	Peak	3.17	135	
4180	36.77	V	54	-17.23	Avg	3.17	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 48.616%

R13 = 1500 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	70.32	H	100.28	-29.96	Peak	1	90	
418	64.06	H	80.28	-16.22	Avg	1	90	
836	35.3	H	80.28	-44.98	Peak	1.5	90	
836	29.04	H	60.28	-31.24	Avg	1.5	90	
1254	30.58	H	74	-43.42	Peak	3.68	135	
1254	24.32	H	54	-29.68	Avg	3.68	135	
1672	36.81	H	74	-37.19	Peak	3.51	135	
1672	30.55	H	54	-23.45	Avg	3.51	135	
2090	39.56	H	80.28	-40.72	Peak	3.53	135	
2090	33.3	H	60.28	-26.98	Avg	3.53	135	
2508	38.51	H	80.28	-41.77	Peak	2.88	135	
2508	32.25	H	60.28	-28.03	Avg	2.88	135	
2926	39.95	H	80.28	-40.33	Peak	3.57	135	
2926	33.69	H	60.28	-26.59	Avg	3.57	135	
3344	40.52	H	80.28	-39.76	Peak	2.98	180	
3344	34.26	H	60.28	-26.02	Avg	2.98	180	
3762	39.45	H	74	-34.55	Peak	2.71	135	
3762	33.19	H	54	-20.81	Avg	2.71	135	
4180	40.15	H	74	-33.85	Peak	2.71	135	
4180	33.89	H	54	-20.11	Avg	2.71	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 48.616%

R13 = 1500 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	74.02	V	100.28	-26.26	Peak	1	90	
418	67.76	V	80.28	-12.52	Avg	1	90	
836	31	V	80.28	-49.28	Peak	1.35	90	
836	24.74	V	60.28	-35.54	Avg	1.35	90	
1254	33.19	V	74	-40.81	Peak	2.41	135	
1254	26.93	V	54	-27.07	Avg	2.41	135	
1672	44.31	V	74	-29.69	Peak	3.62	135	
1672	38.05	V	54	-15.95	Avg	3.62	135	
2090	40.47	V	80.28	-39.81	Peak	2.46	135	
2090	34.21	V	60.28	-26.07	Avg	2.46	135	
2508	36.21	V	80.28	-44.07	Peak	2.89	135	
2508	29.95	V	60.28	-30.33	Avg	2.89	135	
2926	39.38	V	80.28	-40.9	Peak	2.69	135	
2926	33.12	V	60.28	-27.16	Avg	2.69	135	
3344	39.43	V	80.28	-40.85	Peak	2.69	135	
3344	33.17	V	60.28	-27.11	Avg	2.69	135	
3762	40.04	V	74	-33.96	Peak	2.69	135	
3762	33.78	V	54	-20.22	Avg	2.69	135	
4180	41.78	V	74	-32.22	Peak	3.41	135	
4180	35.52	V	54	-18.48	Avg	3.41	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 48.616%

R13 = 1500 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	79.52	H	100.28	-20.76	Peak	1	135	
418	73.26	H	80.28	-7.02	Avg	1	135	
836	37.6	H	80.28	-42.68	Peak	1	90	
836	31.34	H	60.28	-28.94	Avg	1	90	
1254	30.89	H	74	-43.11	Peak	2.84	135	
1254	24.63	H	54	-29.37	Avg	2.84	135	
1672	40.47	H	74	-33.53	Peak	2.84	135	
1672	34.21	H	54	-19.79	Avg	2.84	135	
2090	39.33	H	80.28	-40.95	Peak	2.85	135	
2090	33.07	H	60.28	-27.21	Avg	2.85	135	
2508	36.74	H	80.28	-43.54	Peak	2.85	125	
2508	30.48	H	60.28	-29.8	Avg	2.85	125	
2926	37.67	H	80.28	-42.61	Peak	2.69	150	
2926	31.41	H	60.28	-28.87	Avg	2.69	150	
3344	38.19	H	80.28	-42.09	Peak	2.69	135	
3344	31.93	H	60.28	-28.35	Avg	2.69	135	
3762	38.63	H	74	-35.37	Peak	2.69	135	
3762	32.37	H	54	-21.63	Avg	2.69	135	
4180	39.68	H	74	-34.32	Peak	3.01	135	
4180	33.42	H	54	-20.58	Avg	3.01	135	

Linx Technologies
Long-Range Handheld Transmitter
P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
Labs: A and B
Tested By: Kyle Fujimoto

X-Axis (Worst Case)

Digital Portion and Non-Harmonic Emissions from the Tx -- 9 kHz to 4200 MHz

[illegible]

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 48.616%

R13 = 1200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	76.17	V	100.8	-24.63	Peak	1	135	
433.92	69.91	V	80.8	-10.89	Avg	1	135	
867.84	37.29	V	80.8	-43.51	Peak	1.15	225	
867.84	31.03	V	60.8	-29.77	Avg	1.15	225	
1301.76	36.57	V	74	-37.43	Peak	2.18	135	
1301.76	30.31	V	54	-23.69	Avg	2.18	135	
1735.68	46.74	V	74	-27.26	Peak	2.91	135	
1735.68	40.48	V	54	-13.52	Avg	2.91	135	
2169.6	42.12	V	74	-31.88	Peak	3.28	135	
2169.6	35.86	V	54	-18.14	Avg	3.28	135	
2603.52	39.91	V	74	-34.09	Peak	2.42	135	
2603.52	33.65	V	54	-20.35	Avg	2.42	135	
3037.4	38.58	V	74	-35.42	Peak	2.36	135	
3037.4	32.32	V	54	-21.68	Avg	2.36	135	
3471.3	39.56	V	74	-34.44	Peak	3.41	135	
3471.3	33.3	V	54	-20.7	Avg	3.41	135	
3905.28	41.02	V	74	-32.98	Peak	2.52	125	
3905.28	34.76	V	54	-19.24	Avg	2.52	125	
4339.2	47.09	V	74	-26.91	Peak	3.94	135	
4339.2	40.83	V	54	-13.17	Avg	3.94	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 48.616%

R13 = 1200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	86.47	H	100.8	-14.33	Peak	1	90	
433.92	80.21	H	80.8	-0.59	Avg	1	90	
867.84	43.39	H	80.8	-37.41	Peak	1	90	
867.84	37.13	H	60.8	-23.67	Avg	1	90	
1301.76	41.61	H	74	-32.39	Peak	2.81	135	
1301.76	35.35	H	54	-18.65	Avg	2.81	135	
1735.68	46.63	H	74	-27.37	Peak	1.85	135	
1735.68	40.37	H	54	-13.63	Avg	1.85	135	
2169.6	41.19	H	74	-32.81	Peak	1.39	135	
2169.6	34.93	H	54	-19.07	Avg	1.39	135	
2603.52	38.17	H	74	-35.83	Peak	2.29	135	
2603.52	31.91	H	54	-22.09	Avg	2.29	135	
3037.4	40.94	H	74	-33.06	Peak	1.92	135	
3037.4	34.68	H	54	-19.32	Avg	1.92	135	
3471.3	40.85	H	74	-33.15	Peak	1.68	135	
3471.3	34.59	H	54	-19.41	Avg	1.68	135	
3905.28	40.01	H	74	-33.99	Peak	2.33	135	
3905.28	33.75	H	54	-20.25	Avg	2.33	135	
4339.2	47.34	H	74	-26.66	Peak	2.78	135	
4339.2	41.08	H	54	-12.92	Avg	2.78	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 48.616%

R13 = 1200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	84.57	V	100.8	-16.23	Peak	1	90	
433.92	78.31	V	80.8	-2.49	Avg	1	90	
867.84	40.69	V	80.8	-40.11	Peak	1.25	90	
867.84	34.43	V	60.8	-26.37	Avg	1.25	90	
1301.76	39.39	V	74	-34.61	Peak	3.03	135	
1301.76	33.13	V	54	-20.87	Avg	3.03	135	
1735.68	52.14	V	74	-21.86	Peak	3.11	135	
1735.68	45.88	V	54	-8.12	Avg	3.11	135	
2169.6	42.71	V	74	-31.29	Peak	3.67	135	
2169.6	36.45	V	54	-17.55	Avg	3.67	135	
2603.52	39.82	V	74	-34.18	Peak	2.53	135	
2603.52	33.56	V	54	-20.44	Avg	2.53	135	
3037.4	44.71	V	74	-29.29	Peak	2.91	135	
3037.4	38.45	V	54	-15.55	Avg	2.91	135	
3471.3	39.25	V	74	-34.75	Peak	2.91	135	
3471.3	32.99	V	54	-21.01	Avg	2.91	135	
3905.28	39.19	V	74	-34.81	Peak	2.69	180	
3905.28	32.93	V	54	-21.07	Avg	2.69	180	
4339.2	49.61	V	74	-24.39	Peak	2.53	135	
4339.2	43.35	V	54	-10.65	Avg	2.53	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 48.616%

R13 = 1200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	73.57	H	100.8	-27.23	Peak	1	90	
433.92	67.31	H	80.8	-13.49	Avg	1	90	
867.84	30.19	H	80.8	-50.61	Peak	1	135	
867.84	23.93	H	60.8	-36.87	Avg	1	135	
1301.76	36.48	H	74	-37.52	Peak	2.16	135	
1301.76	30.22	H	54	-23.78	Avg	2.16	135	
1735.68	47.01	H	74	-26.99	Peak	2.15	135	
1735.68	40.75	H	54	-13.25	Avg	2.15	135	
2169.6	41.25	H	74	-32.75	Peak	3.61	135	
2169.6	34.99	H	54	-19.01	Avg	3.61	135	
2603.52	40.72	H	74	-33.28	Peak	2.38	150	
2603.52	34.46	H	54	-19.54	Avg	2.38	150	
3037.4	44.86	H	74	-29.14	Peak	1.74	135	
3037.4	38.6	H	54	-15.4	Avg	1.74	135	
3471.3	40.79	H	74	-33.21	Peak	1.73	45	
3471.3	34.53	H	54	-19.47	Avg	1.73	45	
3905.28	39.39	H	74	-34.61	Peak	1.38	45	
3905.28	33.13	H	54	-20.87	Avg	1.38	45	
4339.2	46.77	H	74	-27.23	Peak	2.18	135	
4339.2	40.51	H	54	-13.49	Avg	2.18	135	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 48.616%

R13 = 1200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	74.37	V	100.8	-26.43	Peak	1	90	
433.92	68.11	V	80.8	-12.69	Avg	1	90	
867.84	36.69	V	80.8	-44.11	Peak	1	180	
867.84	30.43	V	60.8	-30.37	Avg	1	180	
1301.76	38.12	V	74	-35.88	Peak	3.15	135	
1301.76	31.86	V	54	-22.14	Avg	3.15	135	
1735.68	46.29	V	74	-27.71	Peak	2.25	135	
1735.68	40.03	V	54	-13.97	Avg	2.25	135	
2169.6	41.11	V	74	-32.89	Peak	2.23	135	
2169.6	34.85	V	54	-19.15	Avg	2.23	135	
2603.52	40.01	V	74	-33.99	Peak	3.38	135	
2603.52	33.75	V	54	-20.25	Avg	3.38	135	
3037.4	41.61	V	74	-32.39	Peak	2.69	135	
3037.4	35.35	V	54	-18.65	Avg	2.69	135	
3471.3	38.14	V	74	-35.86	Peak	3.04	180	
3471.3	31.88	V	54	-22.12	Avg	3.04	180	
3905.28	42.28	V	74	-31.72	Peak	2.59	90	
3905.28	36.02	V	54	-17.98	Avg	2.59	90	
4339.2	47.72	V	74	-26.28	Peak	3.32	180	
4339.2	41.46	V	54	-12.54	Avg	3.32	180	

FCC 15.231

Linx Technologies
 Long-Range Handheld Transmitter
 P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
 Labs: A and B
 Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 48.616%

R13 = 1200 Ohms

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	83.97	H	100.8	-16.83	Peak	1	180	
433.92	77.71	H	80.8	-3.09	Avg	1	180	
867.84	42.89	H	80.8	-37.91	Peak	1.25	90	
867.84	36.63	H	60.8	-24.17	Avg	1.25	90	
1301.76	39.58	H	74	-34.42	Peak	2.17	145	
1301.76	33.32	H	54	-20.68	Avg	2.17	145	
1735.68	49.36	H	74	-24.64	Peak	2.15	135	
1735.68	43.1	H	54	-10.9	Avg	2.15	135	
2169.6	43.58	H	74	-30.42	Peak	3.61	135	
2169.6	37.32	H	54	-16.68	Avg	3.61	135	
2603.52	43.58	H	74	-30.42	Peak	2.38	150	
2603.52	37.32	H	54	-16.68	Avg	2.38	150	
3037.4	47.24	H	74	-26.76	Peak	1.78	100	
3037.4	40.98	H	54	-13.02	Avg	1.78	100	
3471.3	43.58	H	74	-30.42	Peak	1.73	45	
3471.3	37.32	H	54	-16.68	Avg	1.73	45	
3905.28	42.15	H	74	-31.85	Peak	1.38	45	
3905.28	35.89	H	54	-18.11	Avg	1.38	45	
4339.2	45.25	H	74	-28.75	Peak	1.58	135	
4339.2	38.99	H	54	-15.01	Avg	1.58	135	

Linx Technologies
Long-Range Handheld Transmitter
P/N: OTX-xxx-HH-LR8-HS

Date: 01/02/07
Labs: A and B
Tested By: Kyle Fujimoto

X-Axis (Worst Case)

Digital Portion and Non-Harmonic Emissions from the Tx -- 9 kHz to 4400 MHz

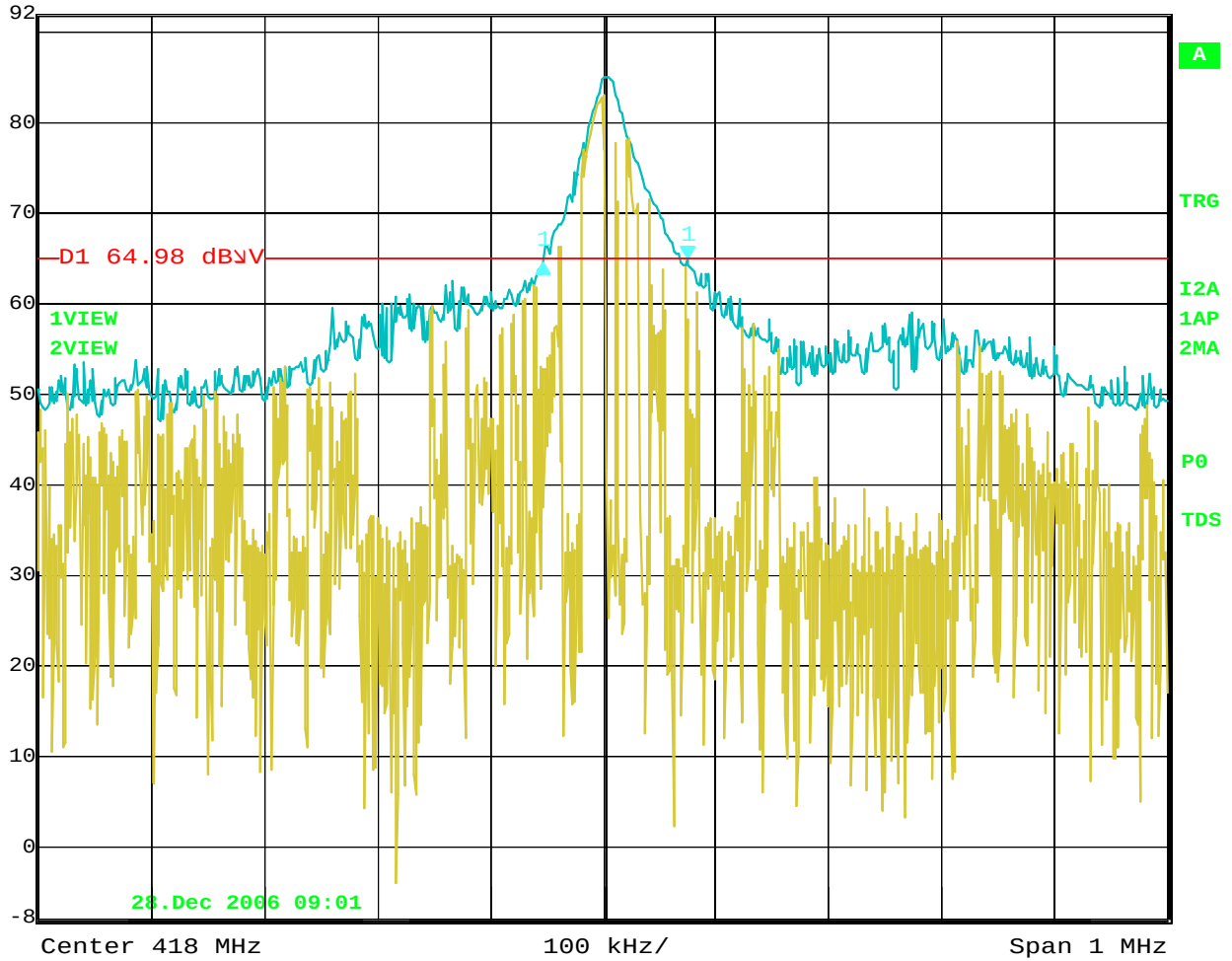
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-20 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Delta 1 [T2]	RBW	30 kHz	RF Att	20 dB
92 dBμV	-0.59 dB	VBW	100 kHz		
	-128.25651303 kHz	SWT	5.5 ms	Unit	dBμV

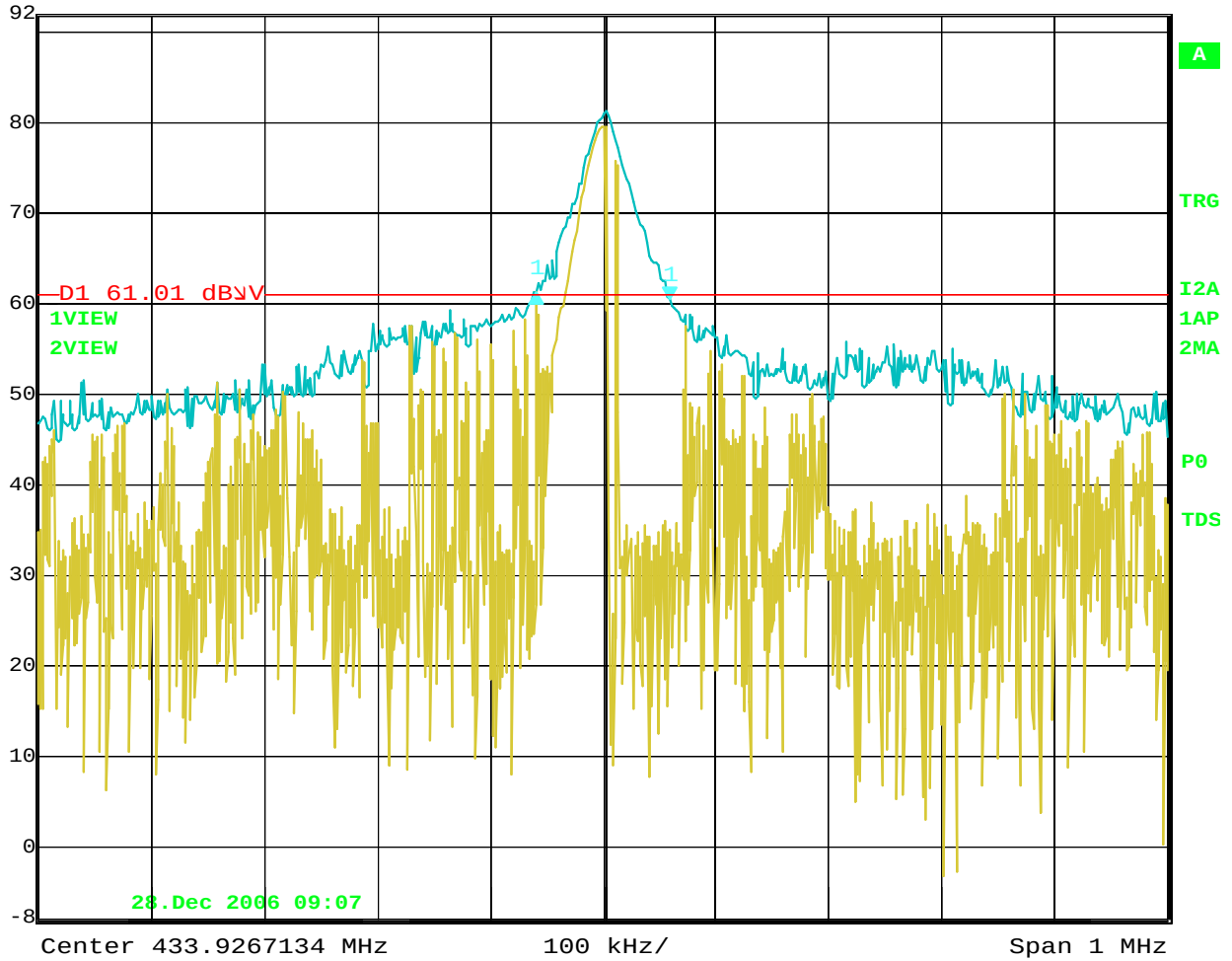


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-20 dB Bandwidth – 418 MHz Version



Ref Lvl	Delta 1 [T2]	RBW	30 kHz	RF Att	20 dB
92 dBμV	0.98 dB	VBW	100 kHz		
	-118.23647295 kHz	SWT	5.5 ms	Unit	dBμV



Date: 28.DEC.2006 09:07:15

-20 dB Bandwidth – 433.92 MHz Version