

FCC PART 15, SUBPART C
TEST METHOD: ANSI C63.4-1992
TEST REPORT

for

TRANSMITTER

Model: RD31

Prepared for

ANIMATED DECOY COMPANY
 2432 PLUMAS ARBOGA ROAD
 MARYSVILLE, CALIFORNIA 95901

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

DATE: JUNE 30, 2000

| | REPORT BODY | APPENDICES | | | | | TOTAL |
|-------|----------------|------------|---|---|----|---|-----------|
| | | A | B | C | D | E | |
| PAGES | 15 | 2 | 2 | 8 | 15 | 2 | 44 |

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TABLE OF CONTENTS

| Section / Title | PAGE |
|--|-----------|
| GENERAL REPORT SUMMARY | 4 |
| SUMMARY OF TEST RESULTS | 4 |
| 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 Bandwidth of the Fundamental | 14 |
| 8. CONCLUSIONS | 15 |



LIST OF APPENDICES

| APPENDIX | TITLE |
|----------|--|
| A | Modifications to the EUT |
| B | Additional Models Covered Under This Report |
| C | Diagrams, Charts and Photos <ul style="list-style-type: none">• Test Setup Diagrams• Radiated Emissions Photos• Antenna and Effective Gain Factors |
| D | Data Sheets |
| E | Laboratory Recognitions |

LIST OF FIGURES

| FIGURE | TITLE |
|--------|----------------------------------|
| 1 | Conducted Emissions Test Setup |
| 2 | Plot Map And Layout of 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 in any form unless done so in full with the written permission of Compatible Electronics.

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

Device Tested: Transmitter
Model: RD31
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Manufacturer: Animated Decoy Company
2432 Plumas Arboga Road
Marysville, California 95901

Test Date: June 29, 2000

Test Specifications: EMI requirements
CFR Title 47, Part 15 Subpart C, Sections 15.205, 15.209, and 15.231

Test Procedure: ANSI C63.4: 1992

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

SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION | RESULTS |
|------|--|---|
| 1 | Conducted RF Emissions, 450 kHz - 30 MHz | This test was not performed because the EUT runs off one 12 volt battery only and cannot be powered by any device that runs off of the AC public mains. |
| 2 | Radiated RF Emissions, 10 kHz - 3100 MHz | Complies with the limits of CFR Title 47, Part 15, 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: RD31. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. 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 specification limits defined by CFR Title 47, Part 15, 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

Animated Decoy Company

Paige Homen Vice President

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer
Scott McCutchan Lab Manager

2.4 Date Test Sample was Received

The test sample was received on June 28, 2000.

2.5 Disposition of the Test Sample

The test sample has not been returned to Animated Decoy Company as of June 30, 2000.

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, Subpart C | FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators |
| ANSI C63.4 1992 | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz |



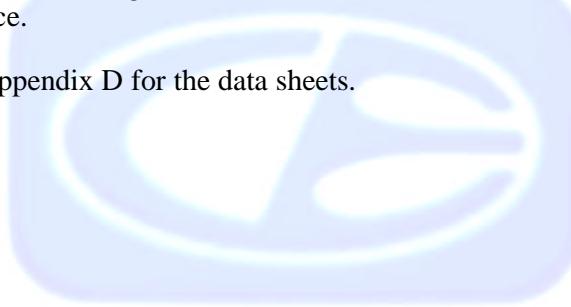
4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Setup and operation of the equipment under test.

The Transmitter Model: RD31 (EUT) was tested as a stand alone unit and placed in the middle of the table. The EUT was tested in three orthogonal axis. The EUT was continuously transmitting. The final radiated data was taken in the mode above. The antenna is a PCB trace.

Please see Appendix D 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 | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|-------------------|------------------------|--------------|---------------|----------|
| TRANSMITTER (EUT) | ANIMATED DECOY COMPANY | RD31 | N/A | O4K-RD31 |



5.2 EMI Test Equipment

| EQUIPMENT TYPE | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. DUE DATE |
|-------------------------------------|------------------|--------------|---------------|---------------|---------------|
| Spectrum Analyzer – Main Section | Hewlett Packard | 8566B | 3638A08768 | June 24, 2000 | June 24, 2001 |
| Spectrum Analyzer – Display Section | Hewlett Packard | 85662A | 3701A22262 | June 24, 2000 | June 24, 2001 |
| Preamplifier | Com Power | PA-102 | 1017 | Jan. 11, 2000 | Jan. 11, 2001 |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2811A01363 | June 24, 2000 | June 24, 2001 |
| Biconical Antenna | Com Power | AB-100 | 1548 | Oct. 14, 1999 | Oct. 14, 2000 |
| Log Periodic Antenna | Com Power | AL-100 | 16039 | Oct. 14, 1999 | Oct. 14, 2000 |
| 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 | HP98561A | 2522A05178 | N/A | N/A |
| Printer | Hewlett Packard | 2225A | 2925S33268 | N/A | N/A |
| Plotter | Hewlett Packard | 7440A | 8726K38417 | N/A | N/A |
| Microwave Preamplifier | Com-Power | PA-122 | 25195 | Jan. 13, 2000 | Jan. 13, 2001 |
| Horn Antenna | Antenna Research | DRG-118/A | 1053 | Dec. 8, 1995 | N/A |
| Loop Antenna | Com-Power | AL-130 | 25309 | May 25, 2000 | May 25, 2001 |



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 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 quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets. 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 3.1 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: 1992. 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 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.



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 transmitter. A plot of the -20 dB bandwidth is in Appendix D.



8. CONCLUSIONS

The Transmitter Model: RD31 meets all of the specification limits defined in CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.



APPENDIX A

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 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.

Modifications:

No modifications were made to the EUT.



APPENDIX B

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



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Transmitter
Model: RD31
S/N: N/A

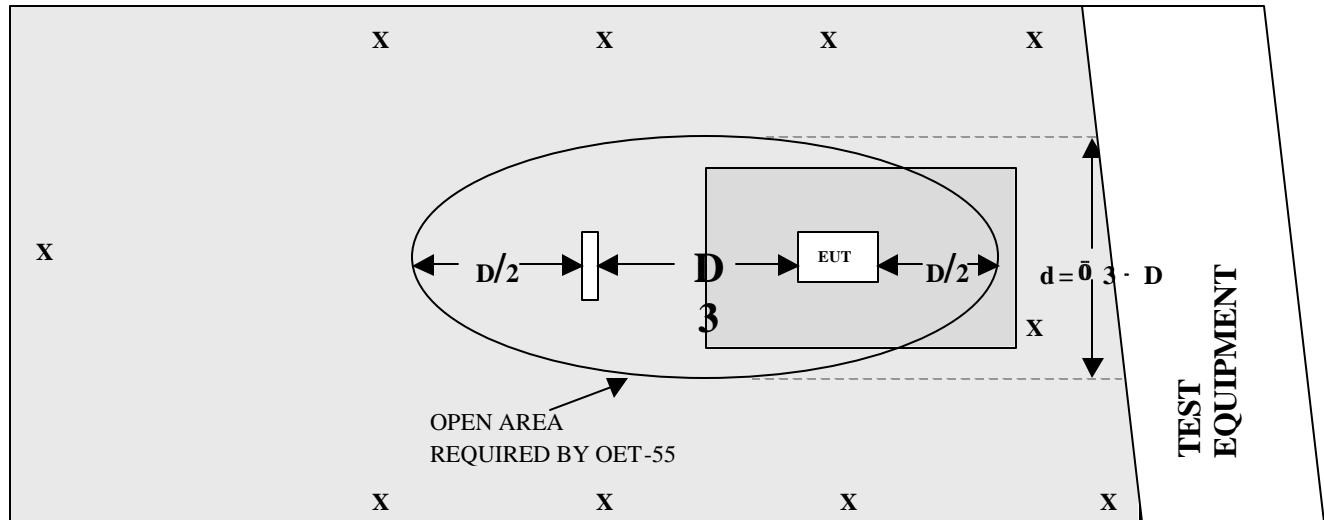
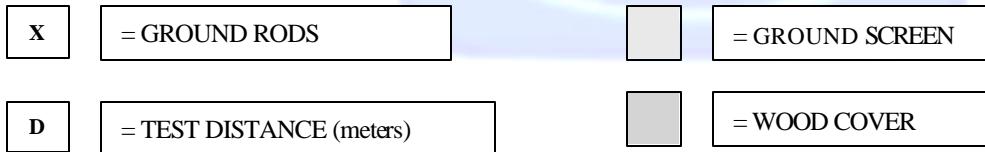
There were no additional models covered under this report.



APPENDIX C

DIAGRAMS, CHARTS AND PHOTOS



FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE**OPEN LAND > 15 METERS****OPEN LAND > 15 METERS****OPEN LAND > 15 METERS**

**FRONT VIEW****ANIMATED DECOY COMPANY****TRANSMITTER****MODEL: RD31****FCC SUBPART C - RADIATED EMISSIONS – 6-29-00**

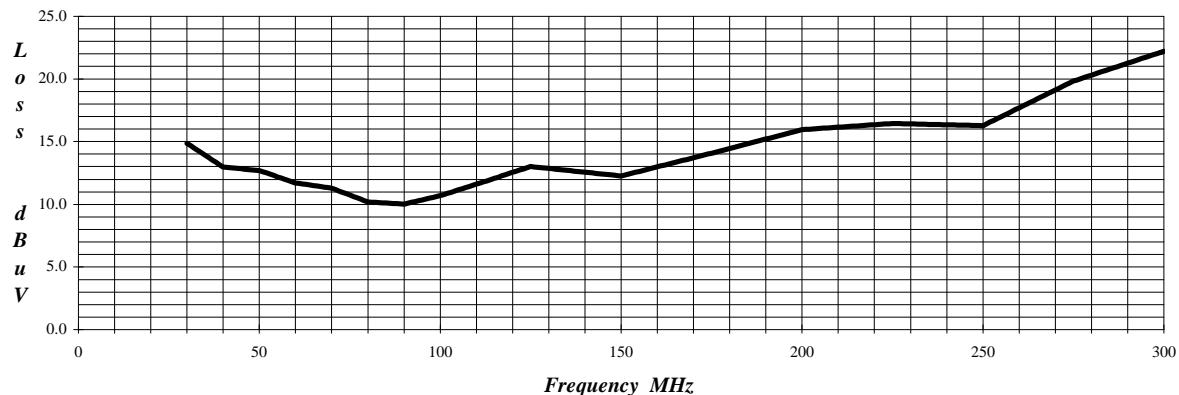
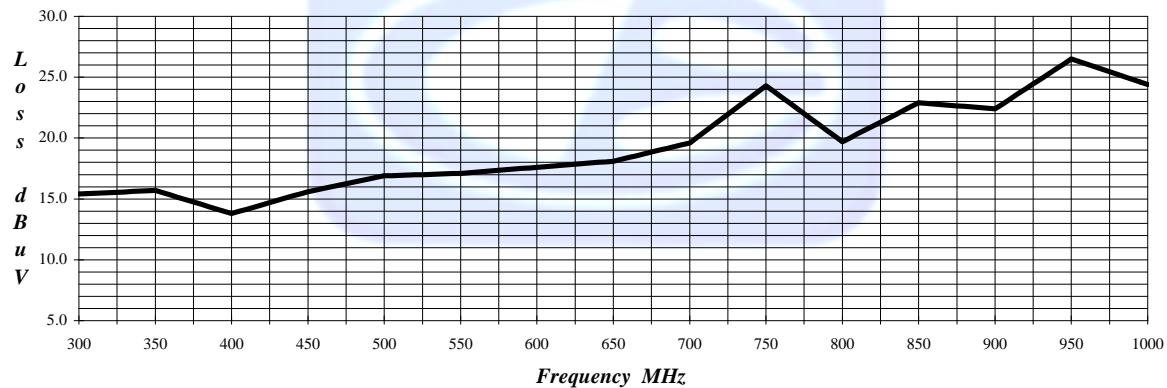
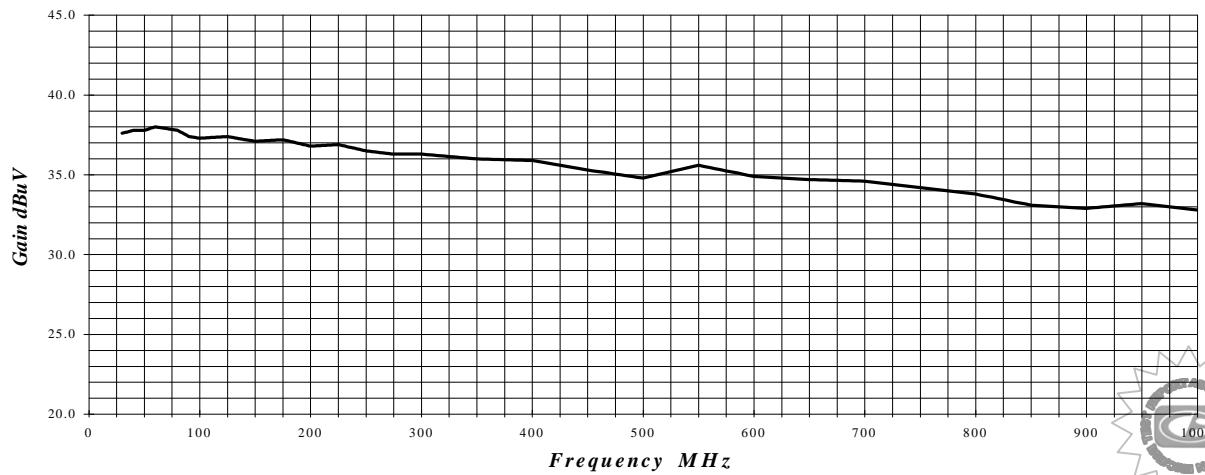
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



**REAR VIEW****ANIMATED DECOY COMPANY****TRANSMITTER****MODEL: RD31****FCC SUBPART C - RADIATED EMISSIONS – 6-29-00**

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



LAB "D" BICONICAL ANTENNA AB-100 S/N 01548 Cal: 10-14-99**LAB "D" LOG PERIODIC ANTENNA AL-100 S/N 16039 Cal: 10-14-99****PREAMPLIFIER EFFECTIVE GAIN AT 3 METERS PA-102 S/N: 1017 Effective 1-13-00**

COM-POWER PA-122
MICROWAVE PREAMPLIFIER
S/N: 25195

CALIBRATION DATE: JANUARY 13, 2000

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|--------------------|----------------|--------------------|----------------|
| 1.0 | 34.4 | 9.0 | 30.7 |
| 1.1 | 34.1 | 9.5 | 31.5 |
| 1.2 | 34.2 | 10.0 | 31.0 |
| 1.3 | 34.1 | 10.5 | 31.4 |
| 1.4 | 33.9 | 11.0 | 30.7 |
| 1.5 | 33.8 | 11.5 | 29.5 |
| 1.6 | 33.0 | 12.0 | 27.8 |
| 1.7 | 33.3 | 12.5 | 31.4 |
| 1.8 | 33.3 | 13.0 | 31.0 |
| 1.9 | 31.9 | 13.5 | 31.0 |
| 2.0 | 32.7 | 14.0 | 31.5 |
| 2.5 | 31.8 | 14.5 | 30.2 |
| 3.0 | 31.7 | 15.0 | 29.2 |
| 3.5 | 31.9 | 15.5 | 30.1 |
| 4.0 | 31.0 | 16.0 | 29.0 |
| 4.5 | 31.4 | 16.5 | 27.8 |
| 5.0 | 31.1 | 17.0 | 30.8 |
| 5.5 | 31.0 | 17.5 | 31.5 |
| 6.0 | 32.0 | 18.0 | 30.8 |
| 6.5 | 31.6 | | |
| 7.0 | 32.3 | | |
| 7.5 | 32.9 | | |
| 8.0 | 32.1 | | |
| 8.5 | 31.6 | | |



E-FIELD ANTENNA FACTOR CALIBRATION

$$E(\text{dB V/m}) = V_o(\text{dB V}) + AFE(\text{dB/m})$$

Model number : DRG-118/A

| Frequency GHz | AFE dB/m | Gain dBi |
|------------------|-------------|-------------|
| 1 | 22.3 | 8.0 |
| 2 | 26.7 | 9.5 |
| 3 | 29.7 | 10.1 |
| 4 | 29.5 | 12.8 |
| 5 | 32.3 | 12.0 |
| 6 | 32.4 | 13.4 |
| 7 | 36.1 | 11.0 |
| 8 | 37.4 | 10.9 |
| 9 | 36.8 | 12.5 |
| 10 | 39.5 | 10.7 |
| 11 | 39.6 | 11.5 |
| 12 | 39.8 | 12.0 |
| 13 | 39.7 | 12.8 |
| 14 | 41.8 | 11.3 |
| 15 | 41.9 | 11.9 |
| 16 | 38.1 | 16.3 |
| 17 | 41.0 | 13.9 |
| 18 | 46.5 | 8.9 |

Serial number : 1053
Job number : 96-092
Remarks : 3 meter calibration
Standards : LPD-118/A, TE-1000

Temperature : 72° F
Humidity : 56 %
Traceability : A01887
Date : December 08, 1995

Calibrated By

Com-Power Corporation

(949) 587-9800

Antenna Calibration

| Antenna Type: | | | Loop Antenna |
|--------------------------|--------------------|------------------|--------------|
| Model: | | | AL-130 |
| Serial Number: | | | 25309 |
| Calibration Date: | | | 05/25/00 |
| Frequency MHz | Magnetic (dB/m) | Electric dB/m | |
| 0.009 | -41.0 | 10.5 | |
| 0.01 | -41.0 | 10.5 | |
| 0.02 | -41.9 | 9.6 | |
| 0.05 | -41.9 | 9.6 | |
| 0.075 | -41.8 | 9.7 | |
| 0.1 | -42.2 | 9.3 | |
| 0.15 | -42.2 | 9.3 | |
| 0.25 | -40.7 | 10.8 | |
| 0.5 | -42.1 | 9.4 | |
| 0.75 | -40.9 | 10.6 | |
| 1 | -41.3 | 10.2 | |
| 2 | -40.8 | 10.7 | |
| 3 | -41.1 | 10.4 | |
| 4 | -41.2 | 10.3 | |
| 5 | -40.7 | 10.8 | |
| 10 | -40.6 | 10.9 | |
| 15 | -42.0 | 9.5 | |
| 20 | -42.0 | 9.5 | |
| 25 | -42.9 | 8.6 | |
| 30 | -42.3 | 9.2 | |
| Trans. Antenna Height | 2 meter | | |
| Receiving Antenna Height | 2 meter | | |

APPENDIX D

DATA SHEETS



RADIATED EMISSIONS

DATA SHEETS



RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

| | | | |
|---------------|------------------------|-------------|----------|
| COMPANY | ANIMATED DECOY COMPANY | DATE | 6/29/00 |
| EUT | TRANSMITTER | DUTY CYCLE | 40.00 % |
| MODEL | RD31 | PEAK TO AVG | -7.96 dB |
| S/N | N/A | TEST DIST. | 3 METERS |
| TEST ENGINEER | KYLE FUJIMOTO | LAB | D |

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)



COMPATIBLE
ELECTRONICS

| | | | |
|---------------|------------------------|-------------|----------|
| COMPANY | ANIMATED DECOY COMPANY | DATE | 6/29/00 |
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| MODEL | RD31 | PEAK TO AVG | -7.96 dB |
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**COMPATIBLE
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COMPATIBLE ELECTRONICS

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

** DELTA = SPEC LIMIT - CORRECTED READING

Test location: Compatible Electronics
Customer : Animated Decoy Company Date : 6/29/2000
Manufacturer : Animated Decoy Company Time : 10.51
EUT name : Transmitter Model: DT31
Specification: Fcc_B Test distance: 3.0 mtrs Lab: D
Distance correction factor($20 \log(\text{test/spec})$) : 0.00
Test Mode : SPURIOUS EMISSIONS FROM THE Tx
TEMPERATURE 81 DEGREES F.
RELATIVE HUMIDITY 35%
TESTED BY: Kyle Fujimoto
KYLE FUJIMOTO

NO SPURIOUS EMISSIONS FOUND BETWEEN 10 kHz AND
1000 MHz IN EITHER POLARIZATION FOR THE EUT

BAND EDGE

DATA SHEETS



hp

-20 dB BANDWIDTH OF FUNDAMENTAL
REF 110.0 dB μ V ATTEN 20 dB

MKR Δ 384 kHz
-0.10 dB

10 dB/

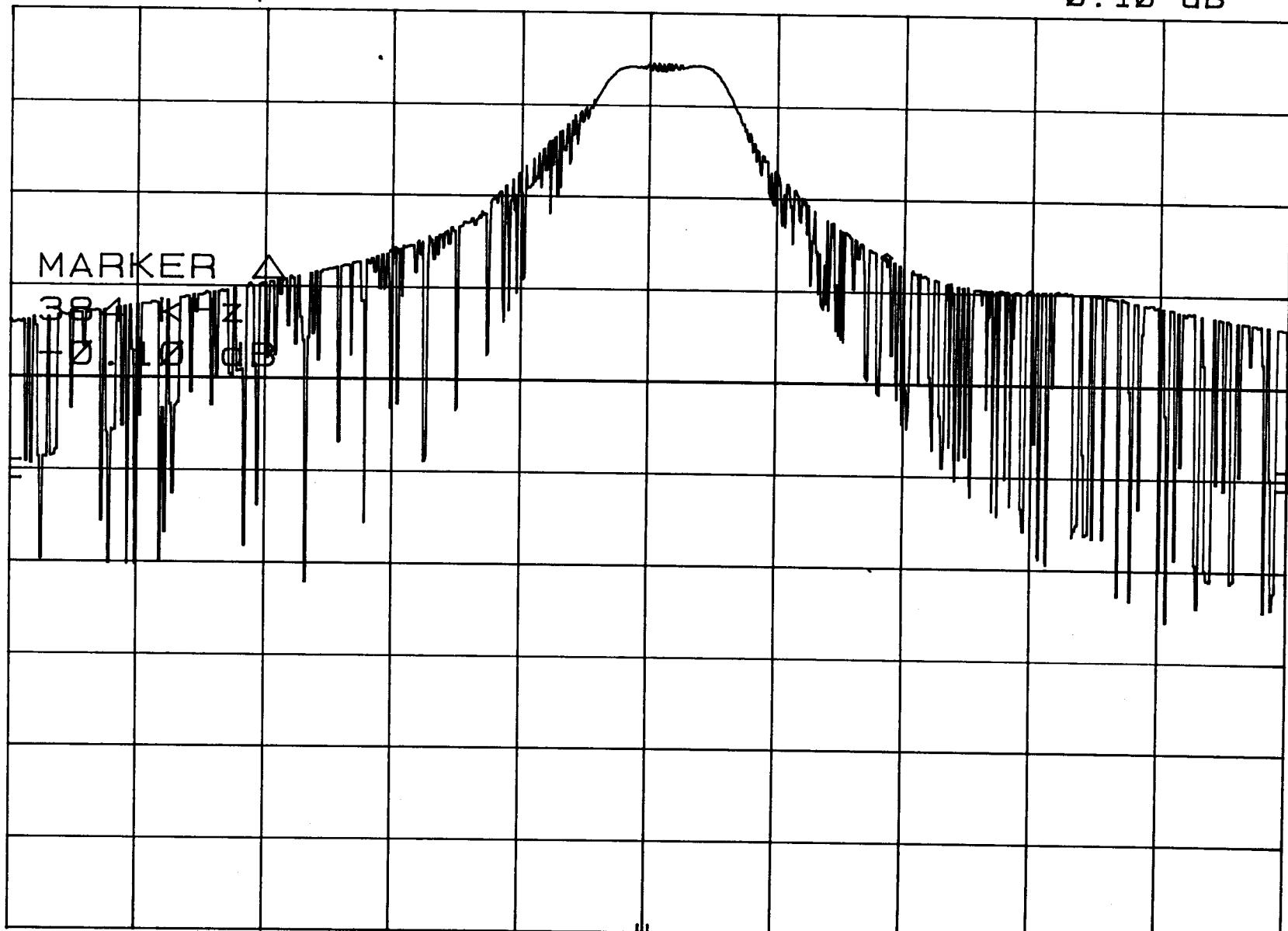
DL
70.0
dB μ V

CORR'D

CENTER 433.83 MHz
RES BW 1 MHz

VBW 1 MHz

SPAN 1.00 MHz
SWP 20.0 msec



APPENDIX E

LABORATORY RECOGNITIONS



LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200063-0

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

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

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)

Technology International (Europe) Ltd.

