

Application for FCC Certification
On behalf of
Tracking Technology Corp.
Radio Remote Controller

Model No.: ERX15-A
RFRC10-A

FCC ID: PUCTTC2001SH

Prepared For : Tracking Technology Corp.
620 Weber St. N. Weterloo Ontario Canada

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F01043
Date of Test : Aug 06~Sept 01, 2001
Date of Report : Sept 03, 2001

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TEST REPORT FOR FCC CERTIFICATION

Applicant : Tracking Technology Corp.
Manufacturer : Tai Cang San Hua Electrical Equipment Co.
EUT Description : Radio Remote Controller
(A) Model No.: ERX15-A (B) Serial No.: 2# (C) Power Supply: DC 9V
RFRC10-A 2# DC 9V
(D) Work Frequency: 315MHz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 1998
AND FCC/ANSI C63.4-1992*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. and Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

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

Date of Test : Aug 06~Sept 01, 2001

Prepared by : Stella Tang Test Engineer : Rain Liang
Stella Tang / Assistant Rain Liang / Engineer
For and on behalf of
AUDIX TECHNOLOGY (SHANGHAI) CO., LTD.
Reviewer : Byron Kwo Approved Signatory : Alex Chiu
Byron Kwo / Supervisor Alex Chiu /
Assistant Manager

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description	:	Radio Remote Controller
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type
Model No.	:	ERX15-A RFRC10-A
Serial No.	:	2# 2#
FCC ID	:	PUCTTC2001SH
Applicant	:	Tracking Technology Corp. 620 Weber St. N. Weterloo Ontario Canada
Manufacturer	:	Tai Cang San Hua Electrical Equipment Co. No.1 Rd Shaxi Town, Suzhou, Tai Cang City

1.2 Description of Test Facility

Site#1 Description	:	Audix Technology (Shanghai) Co., Ltd.
Name of Firm	:	Audix Technology (Shanghai) Co., Ltd.
Site Location	:	3F 34Bldg 680 Guiping Rd, Caohejing Hi-Tech Park, Shanghai, China 200233
Site #2 Description	:	Audix Technology (Shenzhen) Co., Ltd. 3m & 10m Open Area Test Site Certificated by FCC, USA Jan. 29, 2001
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No.6, Ke Feng Rd, 52 Blk, Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, China 518057

1.3 Measurement Uncertainty

Radiated Emission Uncertainty	:	U=4.26dB
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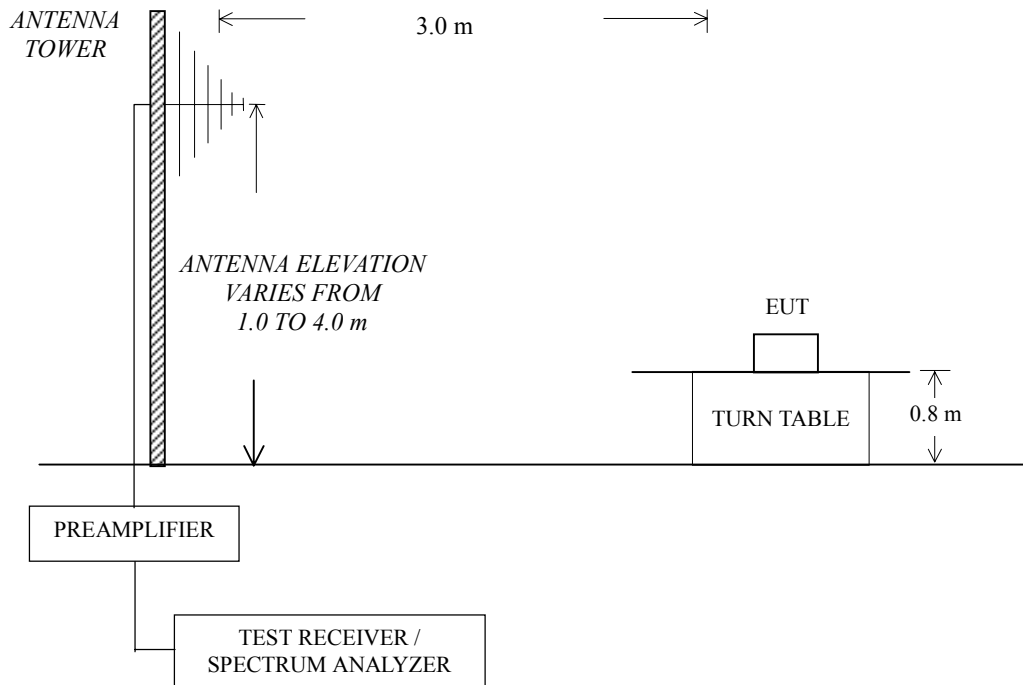
2 RADIATED EMISSION TEST

2.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Preamplifier	HP	8447D	2944A06849	May 02, 2001	1/2 Year
2.	Bilog Antenna	Chase	CBL6111	1145	May 02, 2001	1/2 Year
3.	Test Receiver	HP	85422E	3617A00167	Sep 20, 2000	1 Year

2.2 Block Diagram of Test Setup



2.3 Radiated Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB(μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB(μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.			

2.4 Test Configuration

The EUT was installed as show on Sec. 2.2 in radiated emission test to meet FCC requirement and operating in a manner which tend to maximize emission level in a normal application.

2.5 Operating Condition of EUT

2.5.1 Setup the EUT as shown in Sec. 2.2.

2.5.2 The EUT worked in two attitudes (Side & Lie) and measured it.

2.6 Test Procedures

The EUT was placed on a turntable, which is 0.8 meter above the ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) was used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C 63.4-1992 requirements during radiated emission test.

The bandwidth setting on Test Receiver 85422E is 120 kHz.

The frequency range from 30 MHz to 1000 MHz was checked.

2.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

EUT : Radio Remote Controller Temperature : 20.8°C

Model No. : ERX15-A Humidity : 53%

Test Mode : Transmitting mode Date of Test : Aug 06, 2001

Polarization	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	34.850	17.43	0.73	25.52	27.30	19.94	40.00	20.06
	243.400	12.63	2.24	25.10	26.75	16.52	46.00	29.48
	394.720	17.60	3.03	25.97	27.85	22.51	46.00	23.49
	608.120	20.82	3.87	26.70	27.86	25.85	46.00	20.15
	808.910	23.21	4.43	26.53	27.85	28.96	46.00	17.04
	920.460	24.31	4.69	26.39	27.44	30.05	46.00	15.95
Vertical	31.940	18.49	0.70	25.55	26.58	20.22	40.00	19.78
	115.360	12.04	1.36	25.10	30.65	18.95	43.50	24.55
	244.370	12.67	2.25	25.10	32.15	21.97	46.00	24.03
	442.250	18.19	3.25	26.32	29.74	24.86	46.00	21.14
	649.830	21.53	4.01	26.70	31.50	30.34	46.00	15.66
	907.850	24.06	4.66	26.40	27.56	29.88	46.00	16.12

NOTE 1 – Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor

NOTE 2 – All reading are Quasi-Peak values.

NOTE 3 – The worst emission at horizontal polarization was detected at 920.460 MHz with corrected signal level of 30.05 dB(μV/m) (limit is 46.00dB(μV/m)), when the antenna was 1.30m height and the turn table was at 27°.

NOTE 4 – The worst emission at vertical polarization was detected at 649.830 MHz with corrected signal level of 30.34 dB(μV/m) (limit is 46.00 dB(μV/m)), when the antenna was 1.00m height and the turn table was at 278°.

NOTE 5 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

TEST ENGINEER: Rain Liang
(RAIN LIANG)

EUT : Radio Remote Controller Temperature : 20.8°C

Model No. : RFRC10-A Humidity : 53%

Test Mode : Transmitting mode Date of Test : Aug 06, 2001

Polarization	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	32.910	18.12	0.71	25.54	26.58	19.87	40.00	20.13
	133.790	13.23	1.53	25.10	27.58	17.24	43.50	26.26
	405.390	17.84	3.08	26.05	27.15	22.02	46.00	23.98
	600.360	20.67	3.85	26.70	27.53	25.35	46.00	20.65
	829.280	23.37	4.48	26.51	27.31	28.65	46.00	17.35
	925.310	24.41	4.70	26.38	28.40	31.13	46.00	14.87
Vertical	30.000	18.90	0.67	25.57	32.02	26.02	40.00	13.98
	117.300	12.36	1.37	25.10	29.60	18.23	43.50	25.27
	242.430	12.59	2.24	25.10	31.82	21.55	46.00	24.45
	439.340	18.16	3.24	26.30	31.05	26.15	46.00	19.85
	678.930	22.00	4.09	26.70	30.18	29.57	46.00	16.43
	898.150	23.87	4.64	26.42	28.69	30.78	46.00	15.22

NOTE 1 – Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor

NOTE 2 – All reading are Quasi-Peak values.

NOTE 3 – The worst emission at horizontal polarization was detected at 925.310 MHz with corrected signal level of 31.13 dB(μV/m) (limit is 46.00dB(μV/m)), when the antenna was 1.20m height and the turn table was at 310°.

NOTE 4 – The worst emission at vertical polarization was detected at 30.000 MHz with corrected signal level of 26.02 dB(μV/m) (limit is 40.00 dB(μV/m)), when the antenna was 1.00m height and the turn table was at 270°.

NOTE 5 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

TEST ENGINEER: Rain Liang
(RAIN LIANG)

3 FUNDAMENTAL AND SPURIOUS EMISSIONS TEST

3.1 Test Equipment

The following test equipment are used during the fundamental and spurious emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Preamplifier	HP	8447D	2944A06849	May 02, 2001	1/2 Year
2.	Bilog Antenna	Chase	CBL6111	1145	May 02, 2001	1/2 Year
3.	Test Receiver	HP	85422E	3617A00167	Sept 20, 2000	1 Year
4.	Amplifier	HP	8449B	3008A00863	Jul 04, 2001	1 Year
5.	Spectrum	HP	8593EM	3628H00167	Jul 04, 2001	1 Year
6.	Horn Antenna	EMCO	3115	9510-4580	Jul 04, 2001	1/2 Year

3.2 Block Diagram of Test Setup

Same as Sec.2.2, except the frequency range is above 1GHz, and the antenna is fixed in 1 m high.

3.3 Fundamental and Spurious Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits of fundamental		Field strength limits of spurious emissions	
		($\mu\text{V/m}$)	dB($\mu\text{V/m}$)	($\mu\text{V/m}$)	dB($\mu\text{V/m}$)
174 ~ 260	3	3750	71.48	375	51.48
260 ~ 470	3	3750-12500*	71.48-81.94	375-1250*	51.48-61.94
Above 470	3	12500	81.94	1250	61.94
NOTE 1 - Emission Level dB($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - “*” means linear interpolation.					

3.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in fundamental and spurious emission test to meet FCC requirement and operating in a manner which tend to maximize emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 The EUT worked in two attitudes (Side & Lie) and measured it.

3.6 Test Procedures

The EUT was placed on a table which is 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated antenna) were used as receiving antenna below 1000MHz. Horn antenna were used as receiving antenna above 1000MHz. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C 63.4-1992 requirements during fundamental and spurious emission test.

The bandwidth setting on Test Receiver 85422E is 120 kHz below 1000 MHz.

The bandwidth setting on Spectrum analyzer 8593EM is 1 MHz above 1000 MHz.

The frequency range from 30 MHz to 4000 MHz was checked. The EUT rotated through two orthogonal axes to determine which attitude and configuration produces the highest emission.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

EUT : Radio Remote Controller Temperature : 20.8°C

Model No. : ERX15-A Humidity : 53%

Test Mode : Transmitting mode (Side) Date of Test : Sept 01, 2001

Polarization	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	315.013	14.65	2.59	25.27	-14.563	79.90	57.307	75.62	18.313
	623.600	21.06	3.92	26.70	-14.563	47.01	30.727	55.62	24.893
	935.020	24.58	4.72	26.37	-14.563	40.20	28.567	55.62	27.053
	1250.171	26.06	3.54	35.47	-14.563	43.36	22.927	55.62	32.693
Vertical	315.013	14.65	2.59	25.27	-14.563	79.30	56.707	75.62	18.913
	623.580	21.06	3.92	26.70	-14.563	52.80	36.517	55.62	19.103
	935.900	24.58	4.72	26.37	-14.563	45.62	33.987	55.62	21.633
	1250.171	26.06	3.54	35.47	-14.563	38.07	17.637	55.62	37.983
NOTE 1 – All readings are Peak values. NOTE 2 – Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor + Correction Factor NOTE 3 – Correction factor is calculated by averaging the sum of the pulse train. Correction Factor = $20\lg(5.64/30.2) = -14.563\text{dB}$ (See Appendix I)									

TEST ENGINEER: Rain Liang
(RAIN LIANG)

EUT : Radio Remote Controller Temperature : 20.8°C

Model No. : ERX15-A Humidity : 53%

Test Mode : Transmitting mode (Lie) Date of Test : Sept 01, 2001

Polarization	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	315.013	14.65	2.59	25.27	-14.563	79.31	56.717	75.62	18.903
	623.210	21.06	3.92	26.70	-14.563	47.00	30.717	55.62	24.903
	932.680	24.52	4.71	26.38	-14.563	37.80	26.087	55.62	29.533
	1250.171	26.06	3.54	35.47	-14.563	42.32	21.887	55.62	33.733
Vertical	315.013	14.65	2.59	25.27	-14.563	62.21	39.617	75.62	36.003
	623.210	21.06	3.92	26.70	-14.563	41.68	25.397	55.62	30.223
	938.900	24.65	4.72	26.37	-14.563	48.22	36.657	55.62	18.963
	1250.171	26.06	3.54	35.47	-14.563	39.93	19.497	55.62	36.123
NOTE 1 – All readings are Peak values. NOTE 2 – Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor + Correction Factor NOTE 3 – Correction factor is calculated by averaging the sum of the pulse train. Correction Factor = $20\lg(5.64/30.2) = -14.563\text{dB}$ (See Appendix I)									

TEST ENGINEER: Rain Liang
(RAIN LIANG)

EUT : Radio Remote Controller Temperature : 20.8°C

Model No. : RFRC10-A Humidity : 53%

Test Mode : Transmitting mode (Side) Date of Test : Sept 01, 2001

Polarization	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	314.943	14.65	2.59	25.27	-2.062	76.16	66.068	75.62	9.552
	628.400	21.17	3.94	26.70	-2.062	39.81	36.158	55.62	19.462
	936.800	24.58	4.72	26.37	-2.062	50.09	50.958	55.62	4.662
	1259.675	26.07	3.56	35.47	-2.062	52.30	44.398	55.62	11.222
Vertical	314.943	14.65	2.59	25.27	-2.062	76.06	65.968	75.62	9.652
	628.400	21.17	3.94	26.70	-2.062	41.98	38.328	55.62	17.292
	936.720	24.58	4.72	26.37	-2.062	49.21	50.078	55.62	5.542
	1259.675	26.07	3.56	35.47	-2.062	58.70	50.798	55.62	4.822
NOTE 1 – All readings are Peak values. NOTE 2 – Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor + Correction Factor NOTE 3 – Correction factor is calculated by averaging the sum of the pulse train. Correction Factor = $20\lg(25.08/31.8) = -2.062\text{dB}$ (See Appendix I)									

TEST ENGINEER:

Rain Liang
(RAIN LIANG)

EUT : Radio Remote Controller Temperature : 20.8°C

Model No. : RFRC10-A Humidity : 53%

Test Mode : Transmitting mode (Lie) Date of Test : Sept 01, 2001

Polarization	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	314.943	14.65	2.59	25.27	-2.062	76.20	66.108	75.62	9.512
	628.400	21.17	3.94	26.70	-2.062	52.19	48.538	55.62	7.082
	936.700	24.58	4.72	26.37	-2.062	48.91	49.778	55.62	5.842
	1259.958	26.07	3.56	35.47	-2.062	48.26	40.358	55.62	15.262
Vertical	314.943	14.65	2.59	25.27	-2.062	67.90	57.808	75.62	17.812
	628.490	21.17	3.94	26.70	-2.062	42.21	38.558	55.62	17.062
	936.700	24.58	4.72	26.37	-2.062	40.20	41.068	55.62	14.552
	1259.958	26.07	3.56	35.47	-2.062	46.00	38.098	55.62	17.522
NOTE 1 – All readings are Peak values. NOTE 2 – Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor + Correction Factor NOTE 3 – Correction factor is calculated by averaging the sum of the pulse train. Correction Factor = $20\lg(25.08/31.8) = -2.062\text{dB}$ (See Appendix I)									

TEST ENGINEER: Rain Liang
(RAIN LIANG)

4 BANDWIDTH MEASUREMENT

4.1 Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	HP	85422E	3617A00167	Sept 20, 2000	1 Year
2.	Bilog Antenna	Chase	CBL6111	1145	May 02, 2001	1/2 Year
3.	Preamplifier	HP	8447D	2944A06849	May 02, 2001	1/2 Year

4.2 Bandwidth Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency.

Bandwidth is determined at the points 20dB down from the modulated carrier.

Bandwidth Limit = $0.25\% \times 315(\text{MHz}) = 0.7875(\text{MHz})$

4.3 Test Results

<PASS>

The bandwidth of the Fundament emission is

B.W. = $314.961 - 314.921 = 0.040\text{MHz}$

(M/N: RFRC10-A)

B.W. = $315.042 - 314.988 = 0.054\text{MHz}$

(M/N: ERX15-A)

(See Appendix II)

5 OPERATION DESCRIPTION

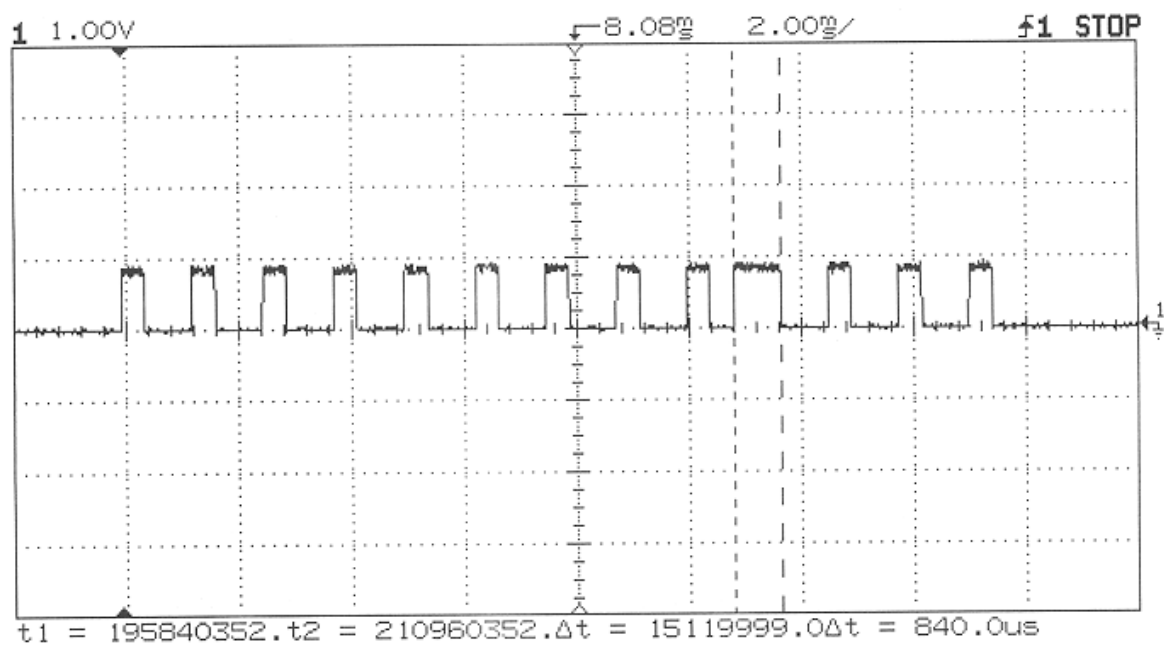
Radio Remote Controller (M/N: RFRC10-A, ERX15-A) employ a switch that will automatically deactivate the Controller within not more than 5 seconds of being released.

APPENDIX I

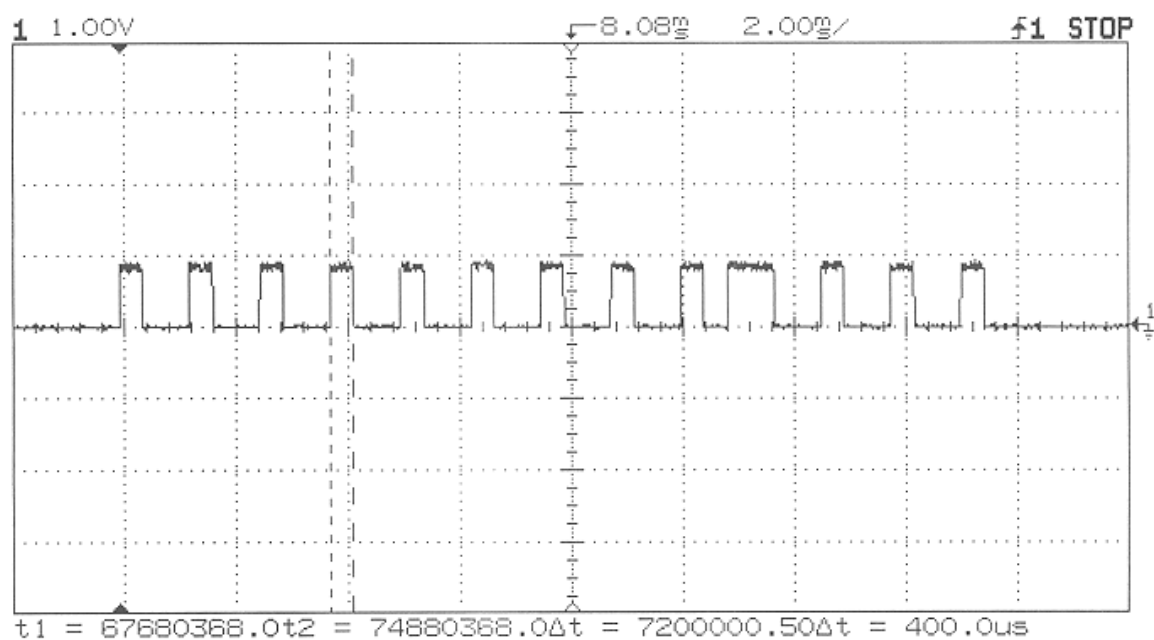
Plot of the Pulse Train

For M/N: ERX15-A

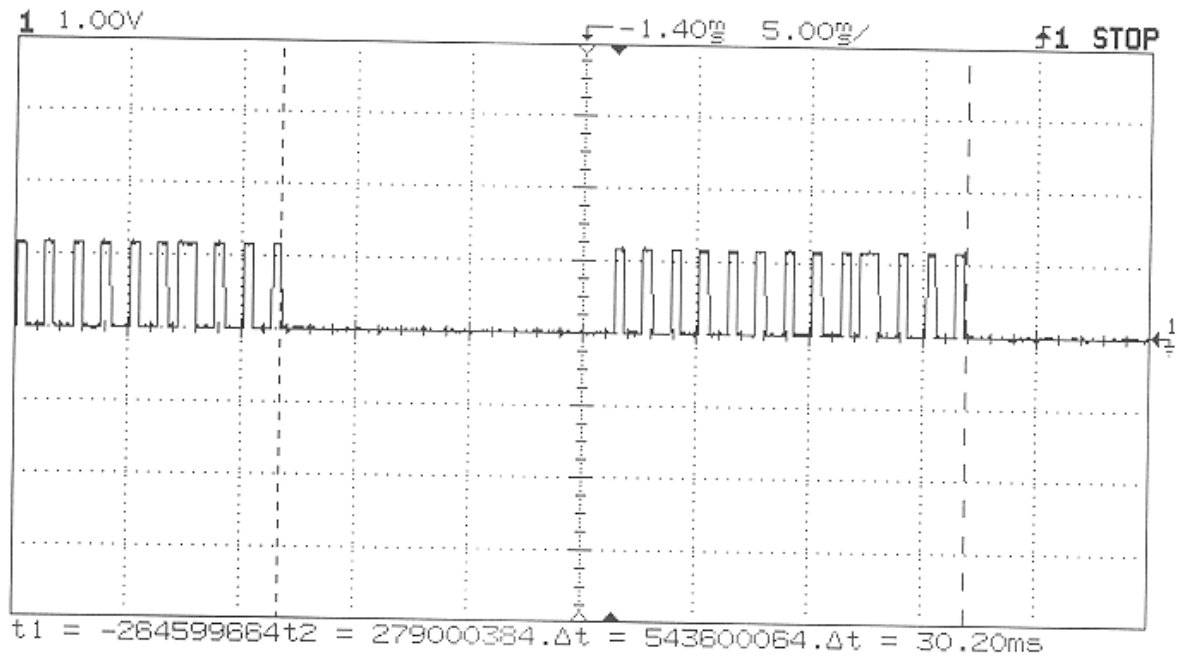
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17:34:29 Fri Aug 31, 2001

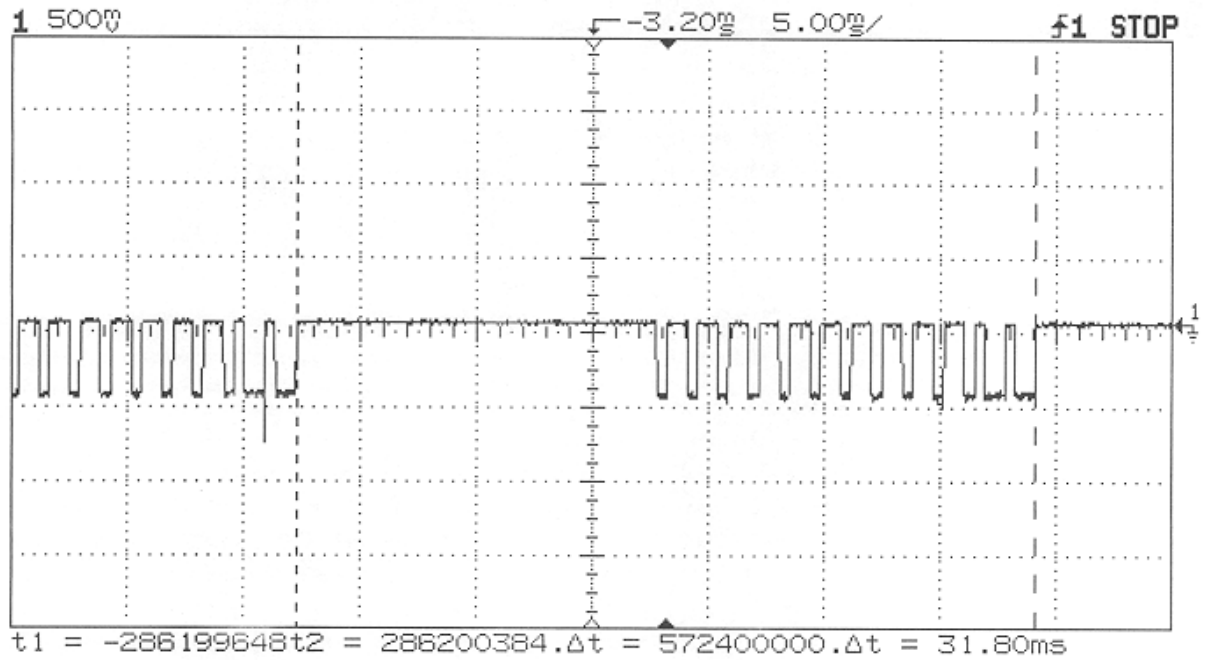


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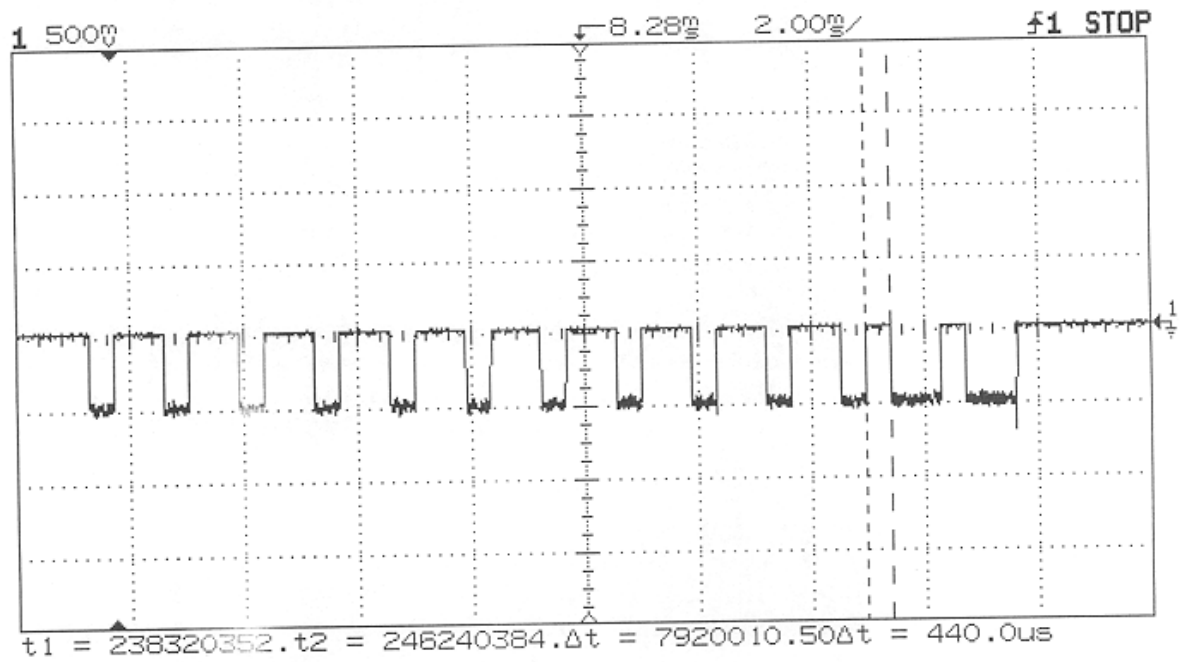


For M/N: RFRC10-A

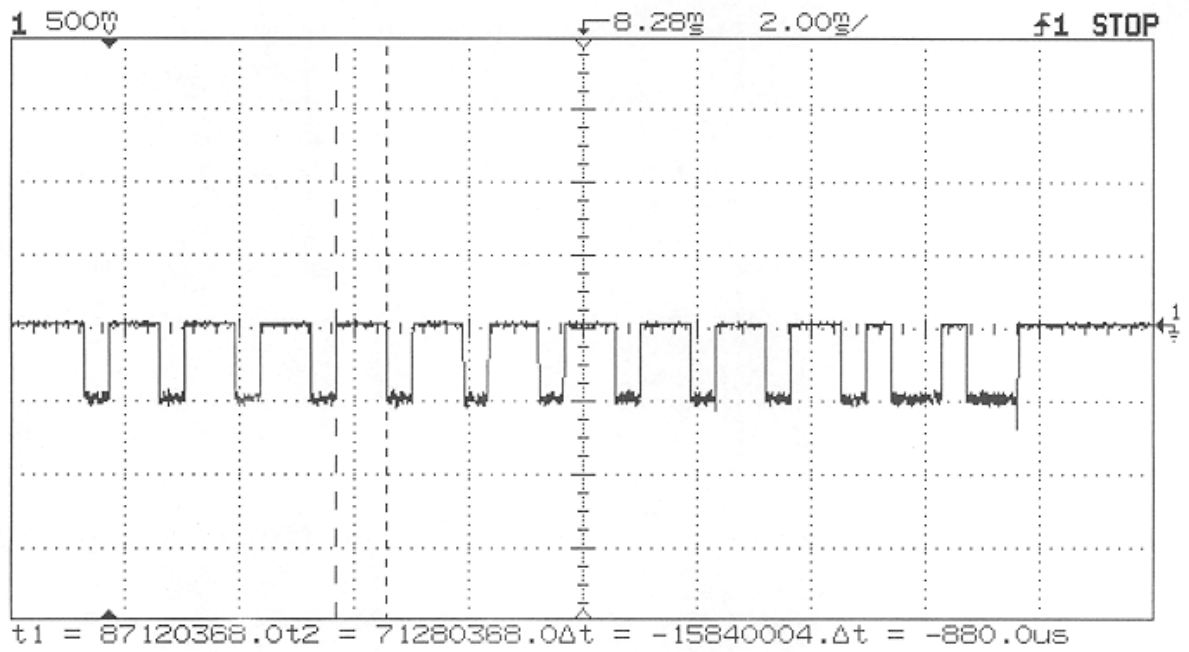
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APPENDIX II

Plot of the Occupied Bandwidth

For M/N: ERX15-A

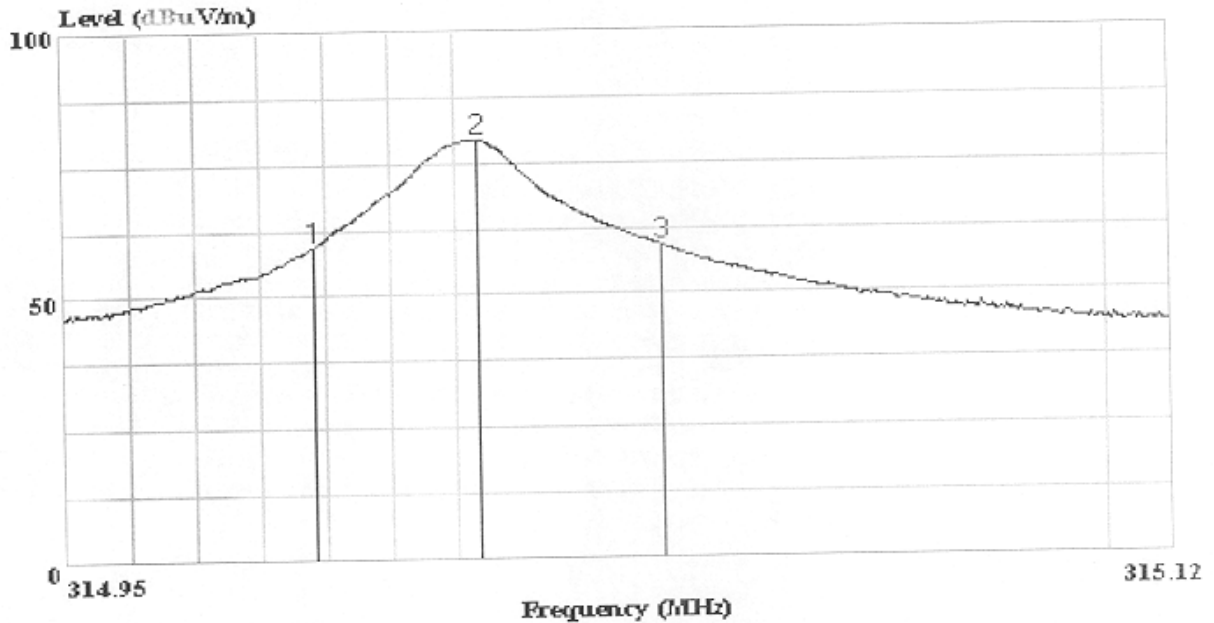


Audix Technology (Shanghai) Co., Ltd.
敦吉電子(上海)有限公司

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Data#: 23 File#: C:\data\T\Taicang.emi

Date: 2001-08-31 Time: 16:45:31



Site : audix-aci
Condition : 3m
Project No. : AQE-000068
Applicant : Tracking Technology Corp.
EUT : Radio Remote Controller
M/N : ERX15-A
Power supply : 9V DC
Ambient : 21'C 53%
Test mode : Transmitting mode
Test Engineer:
Memo :

Page:

	Freq	Level	Over	Limit	Read		Cable	Preamp	Probe
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Factor
			dB	dBuV/m	dBuV	dB	dB	dB	dB
1	314.988	59.32	-----	-----	59.32	0.00	0.00	0.00	0.00
2	315.013	79.31	-----	-----	79.31	0.00	0.00	0.00	0.00
3	315.042	59.25	-----	-----	59.25	0.00	0.00	0.00	0.00

For M/N: RFRC10-A

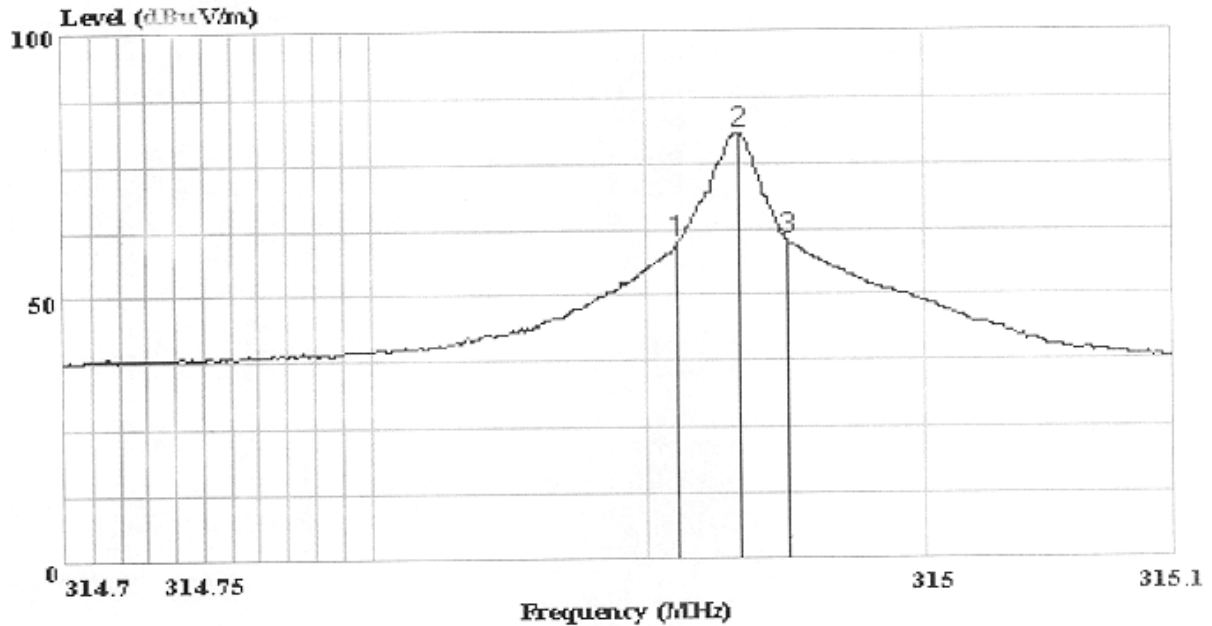


Audix Technology (Shanghai) Co., Ltd.
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Data#: 22 File#: C:\data\T\Taicang.emi

Date: 2001-08-31 Time: 16:03:59



Site : audix-aci
Condition : 3m
Project No. : AQE-000068
Applicant : Tracking Technology Corp.
EUT : Radio Remote Controller
M/N : RFRC10-A
Power supply : 9V DC
Ambient : 21'C 53%
Test mode : Transmitting mode
Test Engineer:
Memo :

Page:

	Freq	Level	Over	Limit	Read		Cable	Preamp	Probe
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Factor
			dB	dBuV/m	dBuV	dB	dB	dB	dB
1	314.921	60.28	-----	-----	60.28	0.00	0.00	0.00	0.00
2	314.943	80.66	-----	-----	80.66	0.00	0.00	0.00	0.00
3	314.961	60.51	-----	-----	60.51	0.00	0.00	0.00	0.00