Application for FCC Certification
On behalf of
Mat-Sports LLC
Remote deer call

Model No.: CY-01
Serial No.: E04070501

FCC ID: SBNCY-01SPORTS

Prepared For : Mat-Sports LLC
97 Main St., Ste E201 Edwards CO 81632, USA

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Date of Test : June 29-July 02, 2004
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TEST REPORT FOR FCC CERTIFICATE

Applicant	:	Mat-Sports LLC
Manufacturer	:	TaiZhou LuQiao ChuangYi Artware Co., Ltd.
EUT Description	:	Remote deer call
		(A) Model No. : CY-01
		(B) Serial No. : E04070501
		(C) Power Supply : DC 12V Battery
		(D) Operation frequency : 315MHz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C JULY 2003
AND ANSI C63.4-2001

The device described above is tested by Audix Technology (Shanghai) 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 radiated emissions.

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 (M/N: CY-01; S/N: E04070501) which was tested in 3m anechoic chamber on June 29-July 02, 2004 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 contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : June 29-July 02, 2004

Prepared by : YOLANDA LIU (Assistant) Test Engineer : SOLON GONG (Engineer)

AUDIX For and on behalf of Audix Technology (Shanghai) Co., Ltd.

Reviewer : SAMMY CHEN (Engineer) Approved Signatory : BYRON KWO (Assistant Manager)

Authorized Signatory

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description	:	Remote deer call
Type of EUT	:	☑ Production ☐ Pre-product ☐ Pro-type
Model No.	:	CY-01
Serial No.	:	E04070501
Applicant	:	Mat-Sports LLC 97 Main St., Ste E201 Edwards CO 81632, USA
Manufacturer	:	TaiZhou LuQiao ChuangYi Artware Co., Ltd. YingFangNei, XiaoWang BuDui, LuQiao, TaiZhou, China

1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber)	:	Sept. 17, 1998 file on Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA
Name of Firm	:	Audix Technology (Shanghai) Co., Ltd.
Site Location	:	3F 34Bldg 680 Guiping Rd, Caohejing Hi-Tech Park, Shanghai, China 200233
NVLAP Lab Code	:	200371-0

1.3 Measurement Uncertainty

Radiated Emission Uncertainty : U=±4.26dB

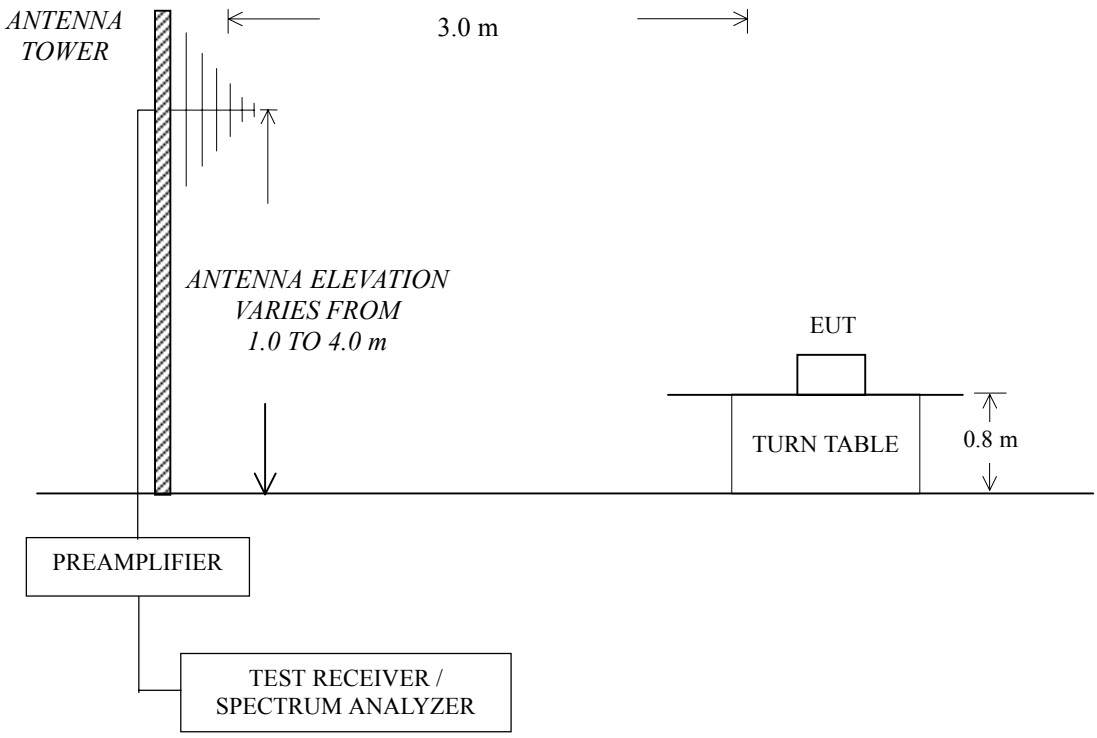
2 RADIATED EMISSION TEST

2.1 Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 22, 2004	1 Year
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 20, 2004	1/2 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	832699/004	Apr 26, 2004	1 Year
4.	Preamplifier	HP	8447D	2944A06849	Mar 22, 2004	1/2 Year
5.	50Ω Coaxial Switch	Anritsu	MP59B	M74689	Mar 21, 2004	1/2 Year
6.	Amplifier	HP	8449B	3008A00864	Apr 20, 2004	1 Year
7.	Horn Antenna	EMCO	3115	9510-4580	Apr 20, 2004	1 Year
8.	Software	Audix	E3	SET00200 9912M295-2	-	-

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 requirements 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 and simulators as shown in Sec. 2.2

2.5.2 Turn on the power of all equipments and the EUT.

2.5.3 Set the EUT on the test mode, and then test.

2.6 Test Procedures

The EUT and simulators were placed on a turntable, which is 0.8 meter above 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 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.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz.

The frequency range from 30 MHz to 3150 MHz was checked.

The test modes (Buck Grunt, Snort, Tending Grunt, Ratting Antler, Doe Bleat) were done on radiated disturbance test and only the worst mode (Buck Grunt) is listed in Sec.2.7.

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.

The worse case is for Buck Grunt mode. The worst emission at horizontal polarization was detected at 2460.000 MHz with corrected signal level of 34.40 dB(μV/m) (limit is 54.00 dB(μV/m)), when the antenna was 1.20m height and the turn table was at 167°.The worst emission at vertical polarization was detected at 761.380 MHz with corrected signal level of 26.75 dB(μV/m) (limit is 46.00 dB(μV/m)), when the antenna was 1.00m height and the turn table was at 198°.

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

EUT	:	Remote deer call	Temperature :	20.7℃
Model No.	:	CY-01	Humidity :	53%
Serial No.	:	E04070501		
Test Mode	:	Buck Grunt	Date of Test :	June 29, 2004

Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Horizontal	32.910	23.38	14.94	0.81	28.47	10.66	40.00	29.34
	46.940	28.08	10.25	0.96	28.45	10.84	40.00	29.16
	121.180	27.42	12.24	1.58	28.18	13.06	43.50	30.44
	153.190	35.74	10.79	1.75	28.07	20.21	43.50	23.29
	279.290	28.79	13.74	2.44	27.57	17.40	46.00	28.60
	484.930	27.21	19.48	3.25	28.69	21.25	46.00	24.75
	1150.000	39.64	24.65	5.40	37.09	32.60	54.00	21.40
	2460.000	**22.34**	**28.71**	**8.39**	**35.04**	**34.40**	**54.00**	**19.60**
	3050.000	15.46	30.87	9.31	34.54	21.10	54.00	32.90
Vertical	41.640	25.77	12.27	0.88	28.44	10.48	40.00	29.52
	121.180	27.19	12.24	1.58	28.18	12.83	43.50	30.67
	153.190	34.86	10.97	1.75	28.07	19.33	43.50	24.17
	279.290	29.12	13.74	2.44	27.57	17.73	46.00	28.27
	444.190	27.02	19.05	3.10	28.57	20.60	46.00	25.40
	761.380	**27.82**	**23.15**	**4.17**	**28.39**	**26.75**	**46.00**	**19.25**
	1150.000	37.54	24.65	5.40	37.09	30.50	54.00	23.50
	2460.000	22.04	28.71	8.39	35.04	24.10	54.00	29.90
	3050.000	14.06	30.87	9.31	34.54	19.70	54.00	34.30

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

NOTE 2 - The readings are Quasi-Peak values when the frequency range is from 30MHz to 1000MHz. The readings are Average Values when the frequencies are above 1000MHz.

TEST ENGINEER: Solon Gong
(SOLON GONG)

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.	Amplifier	HP	8447D	2944A06849	Mar 22,2004	1/2 Year
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 20,2004	1/2 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	832699/004	Apr 26,2004	1 Year
4.	Amplifier	HP	8449B	3008A00864	Apr 20,2004	1 Year
5.	EMC Analyzer	HP	8593EM	3628H00167	Apr 22,2004	1 Year
6.	Horn Antenna	EMCO	3115	9607-4878	Apr 20,2004	1 Year
7.	Oscilloscope	HP	54602b	US36181094	Mar 21,2004	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	
		dB(μV/m)	dB(μV/m)	dB(μV/m)	dB(μV/m)
260 ~ 470	3	3750-12500*	71.48-81.94	375-1250*	51.48-61.94

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.
NOTE 4 - "*"means linear interpolation.
NOTE 5 – The fundamental frequency of the EUT is 315 MHz, according to the note 1, the limit is 20log(41.667×315-7083.3333)=75.62 dB (μV/m) and the limit of the spurious is 55.62 dB (μV/m).

3.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in fundamental and spurious emission test to meet FCC requirements 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 Turn on the power of all equipments and the EUT.

3.5.3 Set the EUT on the test mode, and then test.

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 FCC Part 15 requirements during fundamental and spurious emission test.

The bandwidth setting on Test Receiver ESVS10 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.

NOTE 1 – The readings are Quasi-Peak values when the frequency rang is from 30MHz to 1000MHz. The readings are Average values when the frequencies are above 1000MHz.

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 rain.
In test modes (Buck Grunt, Snort, Tending Grunt, Ratting Antler):
Correction Factor = 20log (15*0.28+10*0.84/3530) = -8.948dB
In test mode (Doe Bleat):
Correction Factor = 20log (13*0.28+12*0.84/3530) = -8.208dB
(See Appendix I)

EUT :	Remote deer call	Temperature :	20.7℃
Model No. :	CY-01	Humidity :	53%
Serial No. :	F04070501		
Test Mode :	Buck Grunt	Date of Test :	July 02, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV /m)	Margin (dB)
Lying	Horizontal	314.99	77.9	15.61	2.87	27.57	-8.948	59.862	74.87	15.008
		629.95	52.9	22.2	4.34	28.85	-8.948	41.642	54.87	13.228
		944.894	45.8	23.1	5.44	28.36	-8.948	37.032	54.87	17.838
		1260	28.4	25.02	5.76	36.83	-8.948	13.402	54.87	41.468
	Vertical	314.988	65.9	15.61	2.87	27.57	-8.948	47.862	74.87	27.008
		629.96	52.4	22.2	4.34	28.85	-8.948	41.142	54.87	13.728
		944.945	45.7	23.1	5.44	28.36	-8.948	36.932	54.87	17.938
		1260	27.2	25.02	5.76	36.83	-8.948	12.202	54.87	42.668
Side	Horizontal	314.9608	74	15.61	2.87	27.57	-8.948	55.962	74.87	18.908
		629.9383	48.8	22.2	4.34	28.85	-8.948	37.542	54.87	17.328
		944.9014	43.9	23.1	5.44	28.36	-8.948	35.132	54.87	19.738
		1260	29.2	25.02	5.76	36.83	-8.948	14.202	54.87	40.668
	Vertical	314.9616	68.9	15.61	2.87	27.57	-8.948	50.862	74.87	24.008
		629.9364	49.8	22.2	4.34	28.85	-8.948	38.542	54.87	16.328
		944.921	45	23.1	5.44	28.36	-8.948	36.232	54.87	18.638
		1260	28.1	25.02	5.76	36.83	-8.948	13.102	54.87	41.768
Stand	Horizontal	314.9568	72.6	15.61	2.87	27.57	-8.948	54.562	74.87	20.308
		629.9389	51.3	22.2	4.34	28.85	-8.948	40.042	54.87	14.828
		944.9017	37.2	23.1	5.44	28.36	-8.948	28.432	54.87	26.438
		1260	32.4	25.02	5.76	36.83	-8.948	17.402	54.87	37.468
	Vertical	314.97	72.1	15.61	2.87	27.57	-8.948	54.062	74.87	20.808
		629.933	50.2	22.2	4.34	28.85	-8.948	38.942	54.87	15.928
		944.8994	39.2	23.1	5.44	28.36	-8.948	30.432	54.87	24.438
		1260	33.8	25.02	5.76	36.83	-8.948	18.802	54.87	36.068

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT :	Remote deer call	Temperature :	20.7℃
Model No. :	CY-01	Humidity :	53%
Serial No. :	F04070501		
Test Mode :	Snort	Date of Test :	July 02, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	314.9701	77.8	15.61	2.87	27.57	-8.948	59.762	74.87	15.108
		629.9302	54.4	22.2	4.34	28.85	-8.948	43.142	54.87	11.728
		944.8938	48.2	23.1	5.44	28.36	-8.948	39.432	54.87	15.438
		1260	32.1	25.02	5.76	36.83	-8.948	17.102	54.87	37.768
	Vertical	314.9576	63.8	15.61	2.87	27.57	-8.948	45.762	74.87	29.108
		629.9433	46.9	22.2	4.34	28.85	-8.948	35.642	54.87	19.228
		944.9121	38	23.1	5.44	28.36	-8.948	29.232	54.87	25.638
		1260	33.2	25.02	5.76	36.83	-8.948	18.202	54.87	36.668
Side	Horizontal	314.9788	73.8	15.61	2.87	27.57	-8.948	55.762	74.87	19.108
		629.9426	50.1	22.2	4.34	28.85	-8.948	38.842	54.87	16.028
		944.8991	44.5	23.1	5.44	28.36	-8.948	35.732	54.87	19.138
		1260	30	25.02	5.76	36.83	-8.948	15.002	54.87	39.868
	Vertical	314.9639	70.6	15.61	2.87	27.57	-8.948	52.562	74.87	22.308
		629.95	50.5	22.2	4.34	28.85	-8.948	39.242	54.87	15.628
		944.9125	44.8	23.1	5.44	28.36	-8.948	36.032	54.87	18.838
		1260	30.3	25.02	5.76	36.83	-8.948	15.302	54.87	39.568
Stand	Horizontal	314.9685	72.4	15.61	2.87	27.57	-8.948	54.362	74.87	20.508
		629.9393	52.1	22.2	4.34	28.85	-8.948	40.842	54.87	14.028
		944.906	39.4	23.1	5.44	28.36	-8.948	30.632	54.87	24.238
		1260	30	25.02	5.76	36.83	-8.948	15.002	54.87	39.868
	Vertical	314.97	72	15.61	2.87	27.57	-8.948	53.962	74.87	20.908
		629.9317	52.5	22.2	4.34	28.85	-8.948	41.242	54.87	13.628
		944.8992	43.7	23.1	5.44	28.36	-8.948	34.932	54.87	19.938
		1260	32.7	25.02	5.76	36.83	-8.948	17.702	54.87	37.168

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT :	Remote deer call	Temperature :	20.7℃
Model No. :	CY-01	Humidity :	53%
Serial No. :	F04070501		
Test Mode :	Tending Grunt	Date of Test :	July 03, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	314.9815	77.6	15.61	2.87	27.57	-8.948	59.562	74.87	15.308
		629.9382	55.1	22.2	4.34	28.85	-8.948	43.842	54.87	11.028
		944.8965	48.4	23.1	5.44	28.36	-8.948	39.632	54.87	15.238
		1260	32.3	25.02	5.76	36.83	-8.948	17.302	54.87	37.568
	Vertical	314.96	62.8	15.61	2.87	27.57	-8.948	44.762	74.87	30.108
		629.9275	46.3	22.2	4.34	28.85	-8.948	35.042	54.87	19.828
		944.9127	37.6	23.1	5.44	28.36	-8.948	28.832	54.87	26.038
		1260	31.8	25.02	5.76	36.83	-8.948	16.802	54.87	38.068
Side	Horizontal	314.987	74.2	15.61	2.87	27.57	-8.948	56.162	74.87	18.708
		629.94	50.1	22.2	4.34	28.85	-8.948	38.842	54.87	16.028
		944.8894	44.1	23.1	5.44	28.36	-8.948	35.332	54.87	19.538
		1260	29.6	25.02	5.76	36.83	-8.948	14.602	54.87	40.268
	Vertical	314.976	70.5	15.61	2.87	27.57	-8.948	52.462	74.87	22.408
		629.938	49.8	22.2	4.34	28.85	-8.948	38.542	54.87	16.328
		944.921	45.1	23.1	5.44	28.36	-8.948	36.332	54.87	18.538
		1260	28.4	25.02	5.76	36.83	-8.948	13.402	54.87	41.468
Stand	Horizontal	314.973	73	15.61	2.87	27.57	-8.948	54.962	74.87	19.908
		629.9428	49.2	22.2	4.34	28.85	-8.948	37.942	54.87	16.928
		944.905	38.6	23.1	5.44	28.36	-8.948	29.832	54.87	25.038
		1260	31.7	25.02	5.76	36.83	-8.948	16.702	54.87	38.168
	Vertical	314.9752	71.1	15.61	2.87	27.57	-8.948	53.062	74.87	21.808
		629.925	52.1	22.2	4.34	28.85	-8.948	40.842	54.87	14.028
		944.8895	42.5	23.1	5.44	28.36	-8.948	33.732	54.87	21.138
		1260	33.1	25.02	5.76	36.83	-8.948	18.102	54.87	36.768

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT	:	Remote deer call	Temperature :	20.7℃
Model No.	:	CY-01	Humidity :	53%
Serial No.	:	F04070501		
Test Mode	:	Ratting Antler	Date of Test :	July 02, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	314.9755	77.6	15.61	2.87	27.57	-8.948	59.562	74.87	15.308
		629.95	55.1	22.2	4.34	28.85	-8.948	43.842	54.87	11.028
		944.8965	48.4	23.1	5.44	28.36	-8.948	39.632	54.87	15.238
		1260	32.6	25.02	5.76	36.83	-8.948	17.602	54.87	37.268
	Vertical	314.96	62.8	15.61	2.87	27.57	-8.948	44.762	74.87	30.108
		629.9275	46.3	22.2	4.34	28.85	-8.948	35.042	54.87	19.828
		944.9127	37.6	23.1	5.44	28.36	-8.948	28.832	54.87	26.038
		1260	31.2	25.02	5.76	36.83	-8.948	16.202	54.87	38.668
Side	Horizontal	314.9795	74.1	15.61	2.87	27.57	-8.948	56.062	74.87	18.808
		629.9428	50.9	22.2	4.34	28.85	-8.948	39.642	54.87	15.228
		944.9006	45.1	23.1	5.44	28.36	-8.948	36.332	54.87	18.538
		1260	28.9	25.02	5.76	36.83	-8.948	13.902	54.87	40.968
	Vertical	314.9667	70.3	15.61	2.87	27.57	-8.948	52.262	74.87	22.608
		629.94	50.3	22.2	4.34	28.85	-8.948	39.042	54.87	15.828
		944.9064	44.5	23.1	5.44	28.36	-8.948	35.732	54.87	19.138
		1260	28.4	25.02	5.76	36.83	-8.948	13.402	54.87	41.468
Stand	Horizontal	314.977	72.1	15.61	2.87	27.57	-8.948	54.062	74.87	20.808
		629.9382	49.5	22.2	4.34	28.85	-8.948	38.242	54.87	16.628
		944.9025	39.2	23.1	5.44	28.36	-8.948	30.432	54.87	24.438
		1260	31.5	25.02	5.76	36.83	-8.948	16.502	54.87	38.368
	Vertical	314.97	71.6	15.61	2.87	27.57	-8.948	53.562	74.87	21.308
		629.93	51.8	22.2	4.34	28.85	-8.948	40.542	54.87	14.328
		944.9015	42.6	23.1	5.44	28.36	-8.948	33.832	54.87	21.038
		1260	33.1	25.02	5.76	36.83	-8.948	18.102	54.87	36.768

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT	:	Remote deer call	Temperature :	20.7℃
Model No.	:	CY-01	Humidity :	53%
Serial No.	:	F04070501		
Test Mode	:	Doe Bleat	Date of Test :	July 02, 2004

Direction	Polarization	Frequency (MHz)	Meter Reading dB(μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Correction factor (dB)	Emission Level dB(μV/m)	Limits dB(μV/m)	Margin (dB)
Lying	Horizontal	314.9656	77.3	15.61	2.87	27.57	-8.208	60.002	74.87	14.868
		629.9495	55.2	22.2	4.34	28.85	-8.208	44.682	54.87	10.188
		944.9077	47.9	23.1	5.44	28.36	-8.208	39.872	54.87	14.998
		1260	30.1	25.02	5.76	36.83	-8.208	15.842	54.87	39.028
	Vertical	914.9764	63.6	15.61	2.87	27.57	-8.208	46.302	74.87	28.568
		629.9498	46.2	22.2	4.34	28.85	-8.208	35.682	54.87	19.188
		944.9176	36.5	23.1	5.44	28.36	-8.208	28.472	54.87	26.398
		1260	29.8	25.02	5.76	36.83	-8.208	15.542	54.87	39.328
Side	Horizontal	314.9876	74.4	15.61	2.87	27.57	-8.208	57.102	74.87	17.768
		629.9383	48.9	22.2	4.34	28.85	-8.208	38.382	54.87	16.488
		944.922	46.8	23.1	5.44	28.36	-8.208	38.772	54.87	16.098
		1260	29.1	25.02	5.76	36.83	-8.208	14.842	54.87	40.028
	Vertical	314.9629	68.5	15.61	2.87	27.57	-8.208	51.202	74.87	23.668
		629.934	47.4	22.2	4.34	28.85	-8.208	36.882	54.87	17.988
		944.9063	43.7	23.1	5.44	28.36	-8.208	35.672	54.87	19.198
		1260	30.5	25.02	5.76	36.83	-8.208	16.242	54.87	38.628
Stand	Horizontal	341.97	72.8	15.61	2.87	27.57	-8.208	55.502	74.87	19.368
		629.9384	50.4	22.2	4.34	28.85	-8.208	39.882	54.87	14.988
		944.9142	39.5	23.1	5.44	28.36	-8.208	31.472	54.87	23.398
		1260	33.4	25.02	5.76	36.83	-8.208	19.142	54.87	35.728
	Vertical	314.9755	70.9	15.61	2.87	27.57	-8.208	53.602	74.87	21.268
		629.9527	50.8	22.2	4.34	28.85	-8.208	40.282	54.87	14.588
		944.8963	44.1	23.1	5.44	28.36	-8.208	36.072	54.87	18.798
		1260	32.1	25.02	5.76	36.83	-8.208	17.842	54.87	37.028

TEST ENGINEER: Solon Gong
(SOLON GONG)

4 BANDWIDTH MEASUREMENT

4.1 Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESVS10	832699/004	Apr 26, 2004	1 Year
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 20, 2004	1/2 Year
3.	Amplifier	HP	8447D	2944A06849	Mar 22, 2004	1/2 Year
4.	Software	Audix	E3	SET00200 9912M295-2	-	-

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.
In Buck Grunt mode: Bandwidth Limit = 0.25% x 314.973(MHz) = 0.7874(MHz)
In Snort mode: Bandwidth Limit = 0.25% x 314.970(MHz) = 0.7874(MHz)
In Tending Grunt mode: Bandwidth Limit = 0.25% x 314.970(MHz) = 0.7874(MHz)
In Ratting Antler mode: Bandwidth Limit = 0.25% x 314.970(MHz) = 0.7874(MHz)
In Doe Bleat mode: Bandwidth Limit = 0.25% x 314.965(MHz) = 0.7874(MHz)

4.3 Test Results

<PASS>

The resolutions bandwidth is 10KHz.
The bandwidth of the Fundament emission is
In Buck Grunt mode: B.W. = 315.226 – 314.732 = 0.494MHz
In Snort mode: B.W. = 315.219 – 314.732 = 0.487MHz
In Tending Grunt mode: B.W. = 315.231 – 314.729 = 0.502MHz
In Ratting Antler mode: B.W. = 315.227 – 314.730 = 0.497MHz
In Doe Bleat mode: B.W. = 315.259 – 314.730 = 0.529MHz

(See Appendix II)

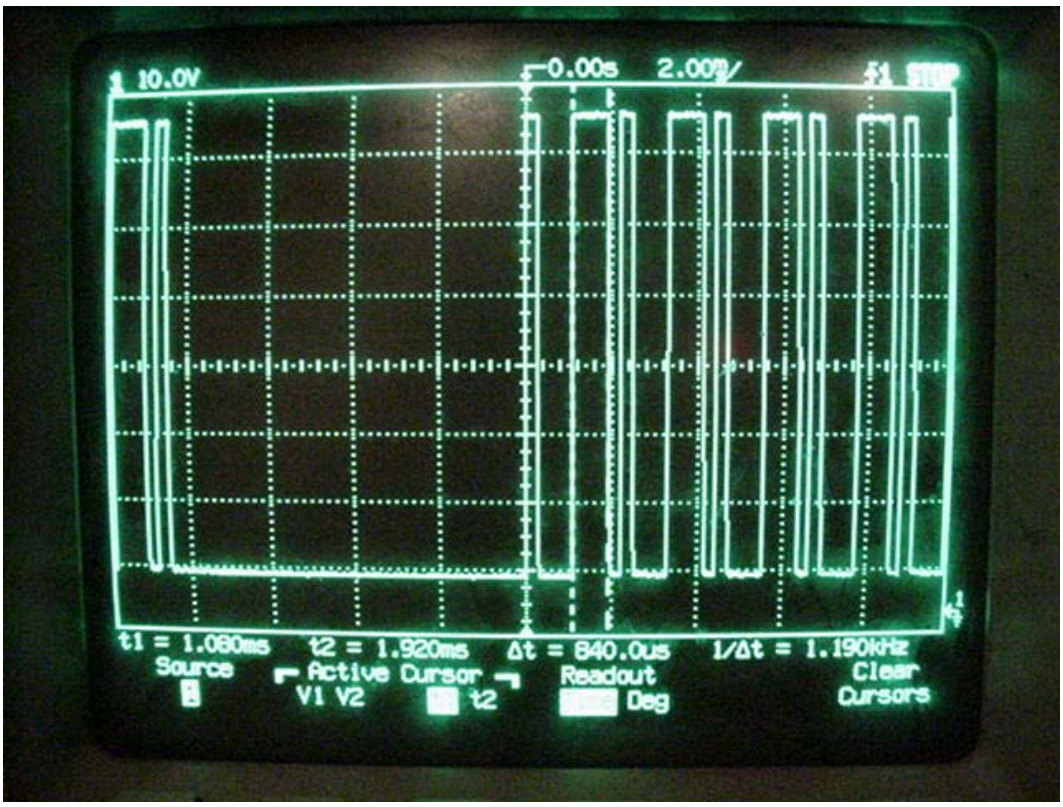
5 OPERATION DESCRIPTION

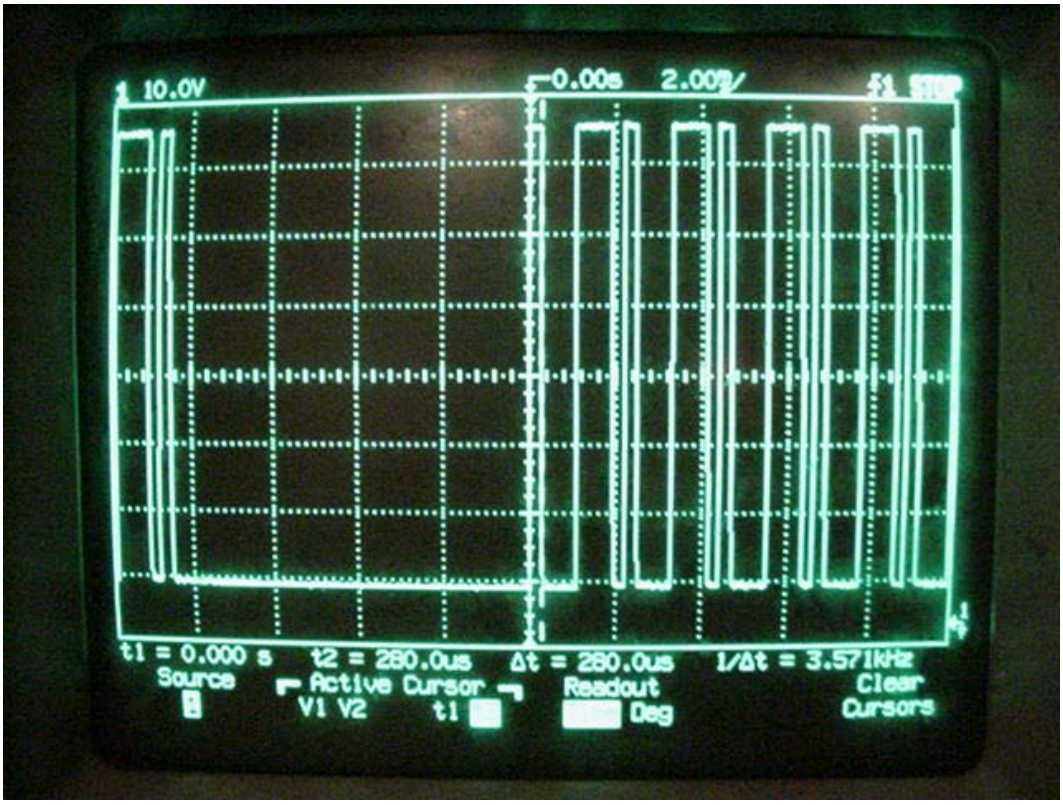
Remote deer call (M/N: CY-01) employs a switch that will automatically deactivate the Controller within not more than 5 seconds of being released.

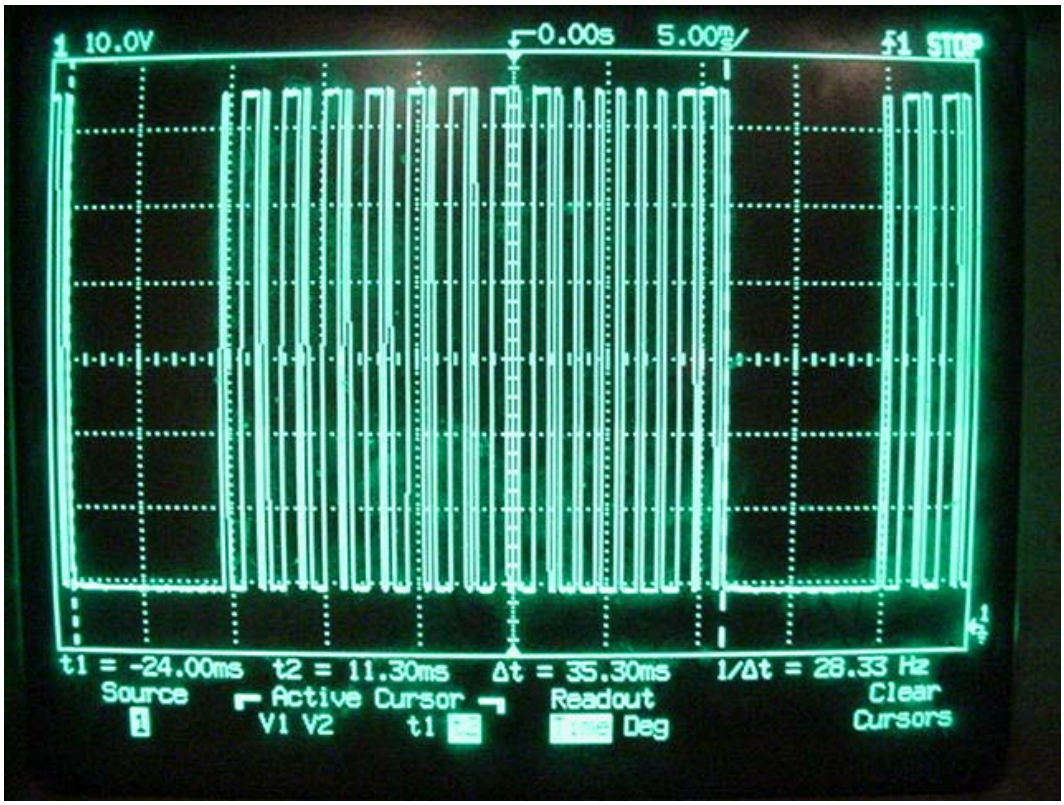
APPENDIX I

PLOT OF THE PULSE TRAIN

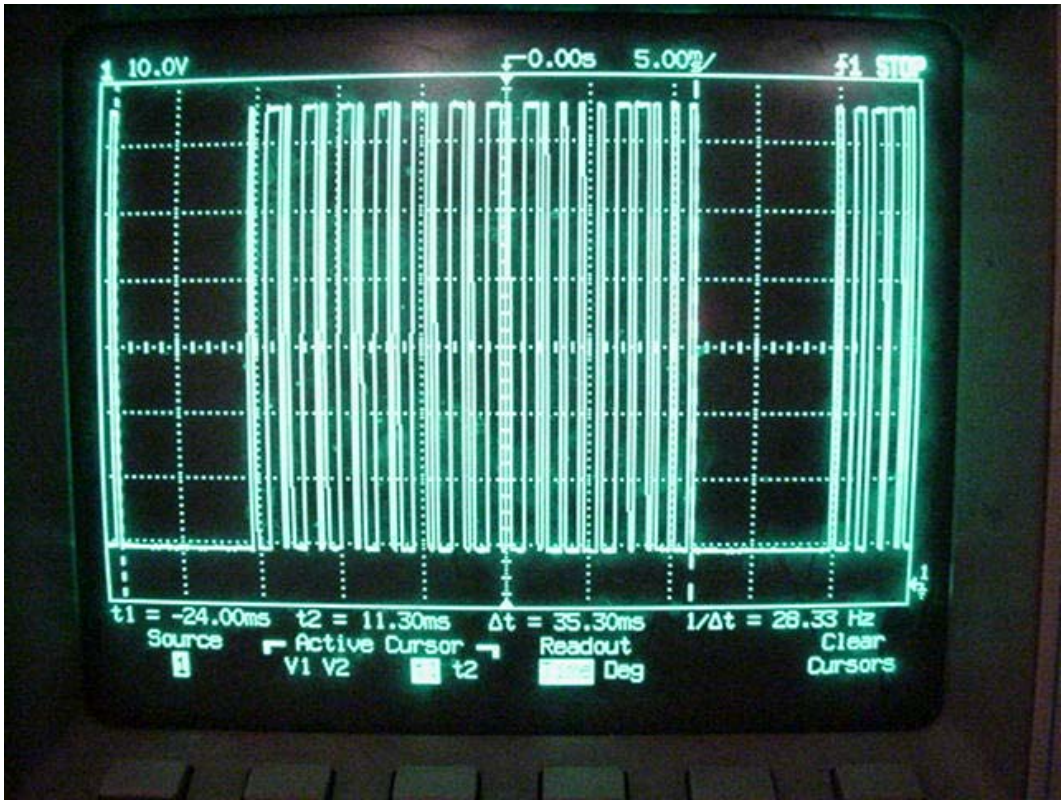
The High Level Bandwidth:



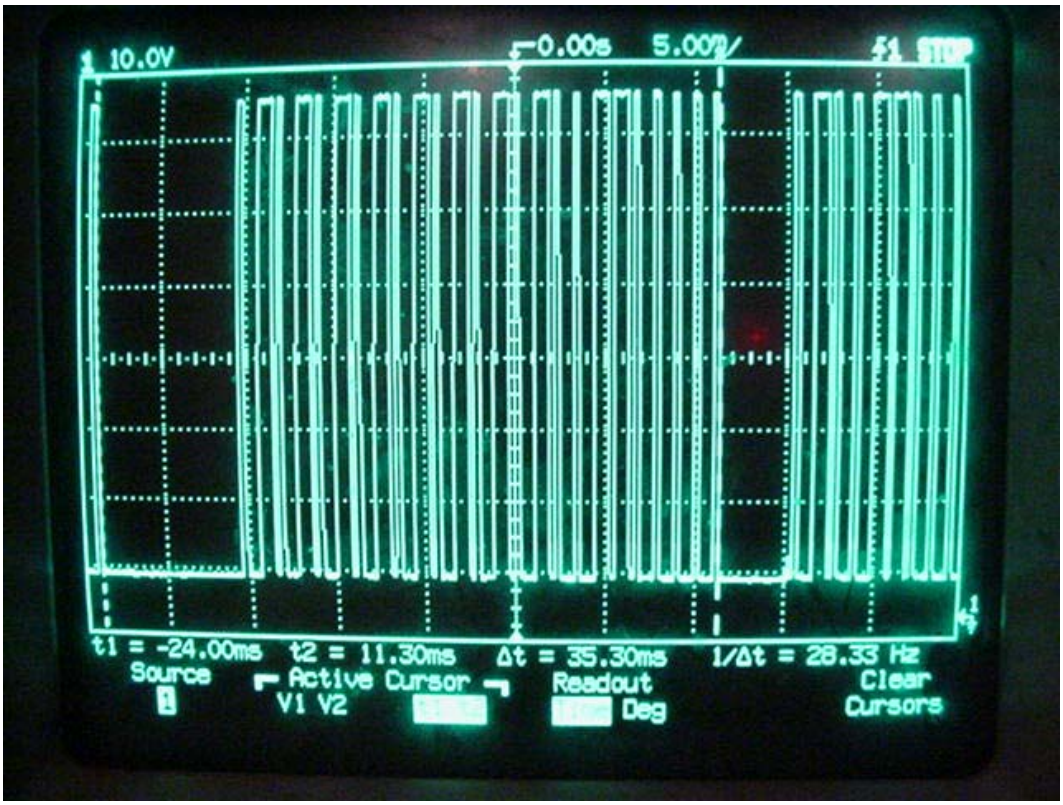




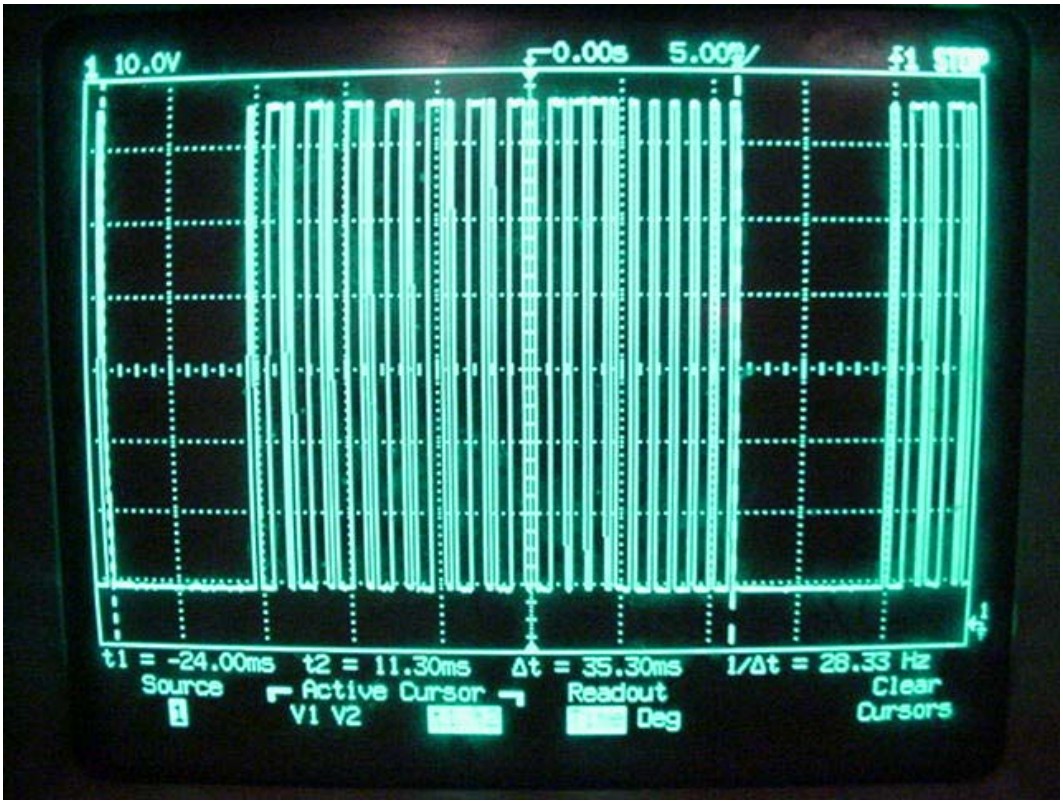
BUCK GRUNT MODE



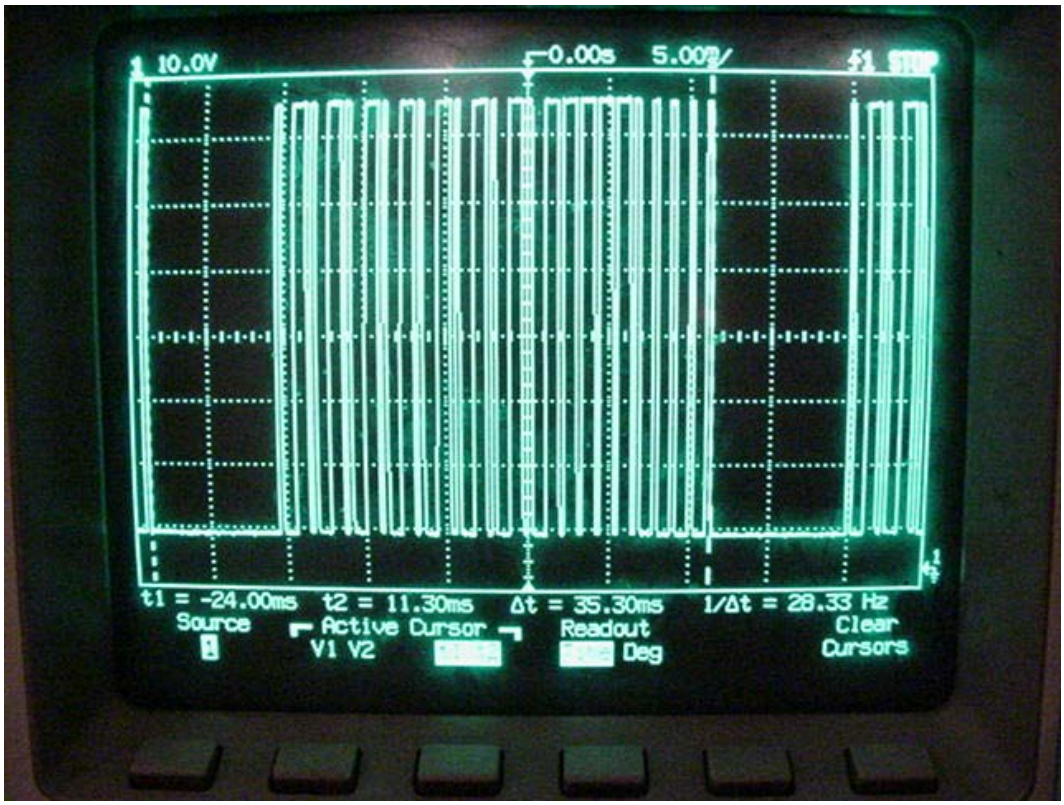
SNORT MODE



TENDING GRUNT MODE



RATTING ANTLER MODE



DOE BLEAT MODE

APPENDIX II

PLOT OF THE OCCUPIED BANDWIDTH

3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

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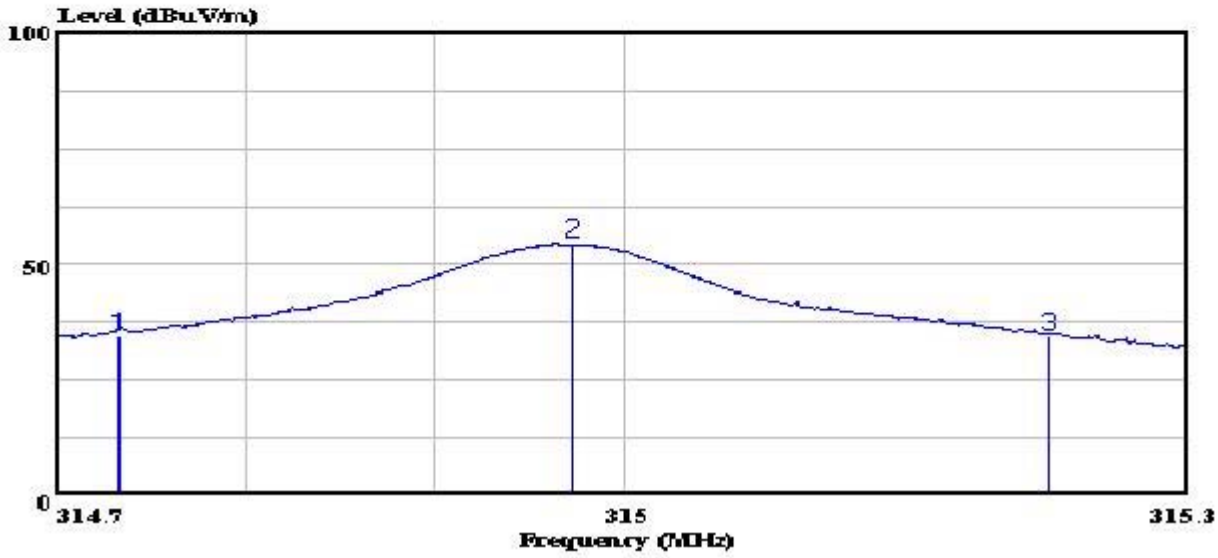

Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000665
Applicant : Mat-Sports LLC
EUT : Remote deer call
M/N : CY-01
S/N : E04070501
Power Supply : DC 12V Battery
Ambient : 20.7C, 53%
Test Mode : **Buck Grunt**
Test Engineer: Solon Gong

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.732	42.40	34.61	------	------	-7.79	15.57	2.87	26.23
2	314.973	62.40	54.65	------	------	-7.75	15.61	2.87	26.23
3	315.226	42.40	34.65	------	------	-7.75	15.61	2.87	26.23

3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

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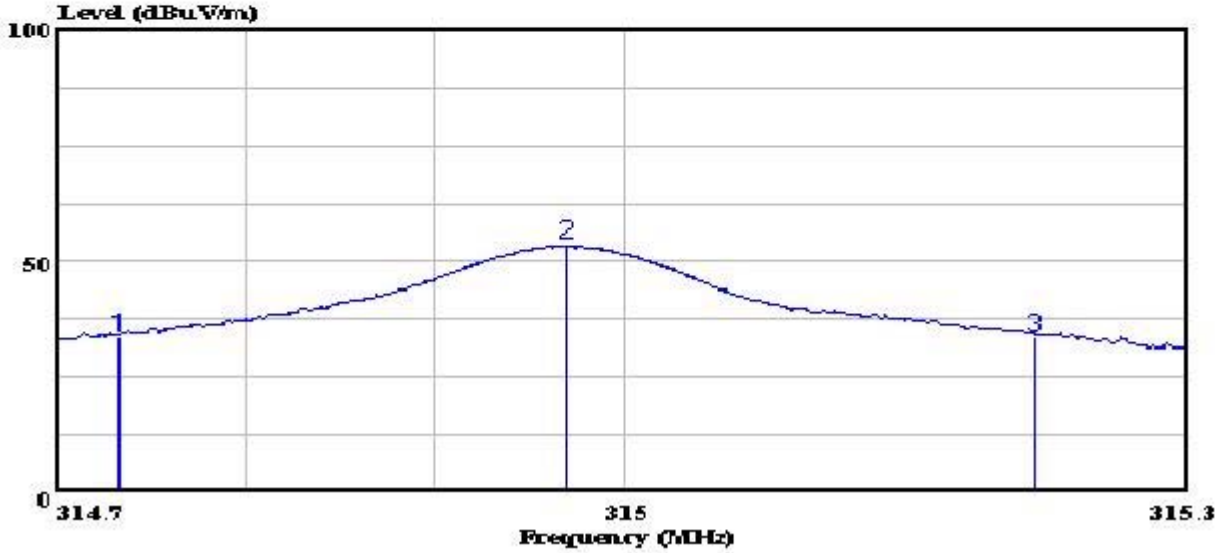

Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000665
Applicant : Mat-Sports LLC
EUT : Remote deer call
M/N : CY-01
S/N : E04070501
Power Supply : DC 12V Battery
Ambient : 20.7C, 53%
Test Mode : **Snort**
Test Engineer: Solon Gong

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.732	41.50	33.71	------	------	-7.79	15.57	2.87	26.23
2	314.970	61.50	53.75	------	------	-7.75	15.61	2.87	26.23
3	315.219	41.50	33.75	------	------	-7.75	15.61	2.87	26.23

3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
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aciemc@audix.com

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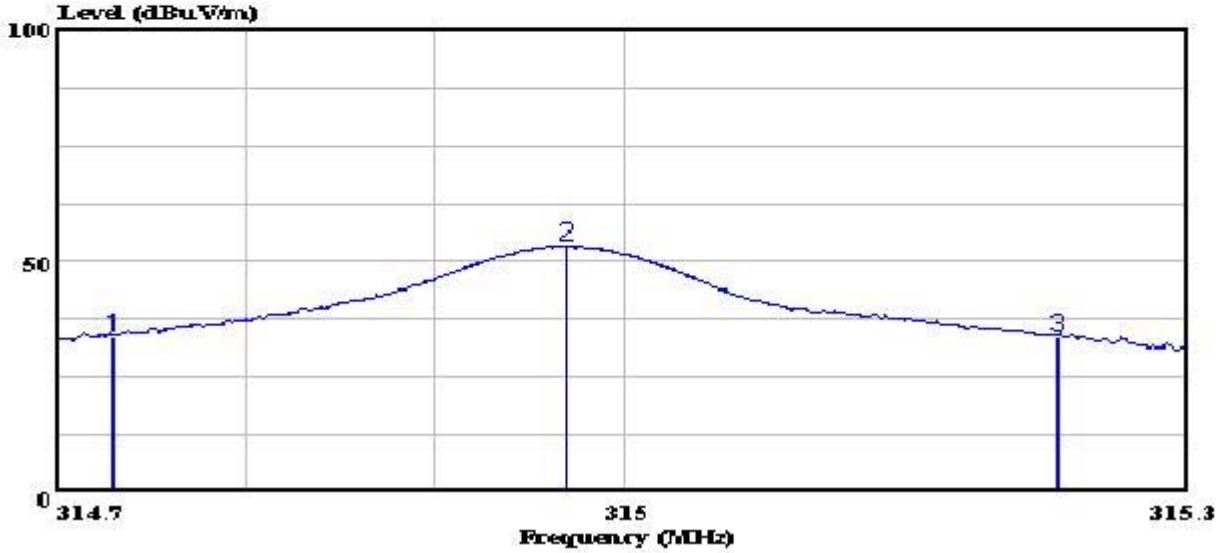

Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000665
Applicant : Mat-Sports LLC
EUT : Remote deer call
M/N : CY-01
S/N : E04070501
Power Supply : DC 12V Battery
Ambient : 20.7C, 53%
Test Mode : **Tending Grunt**
Test Engineer: Solon Gong

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.729	41.30	33.51	------	------	-7.79	15.57	2.87	26.23
2	314.970	61.30	53.55	------	------	-7.75	15.61	2.87	26.23
3	315.231	41.30	33.55	------	------	-7.75	15.61	2.87	26.23

3F #34Bldg. No.680 GuiPing Rd.,
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aciemc@audix.com

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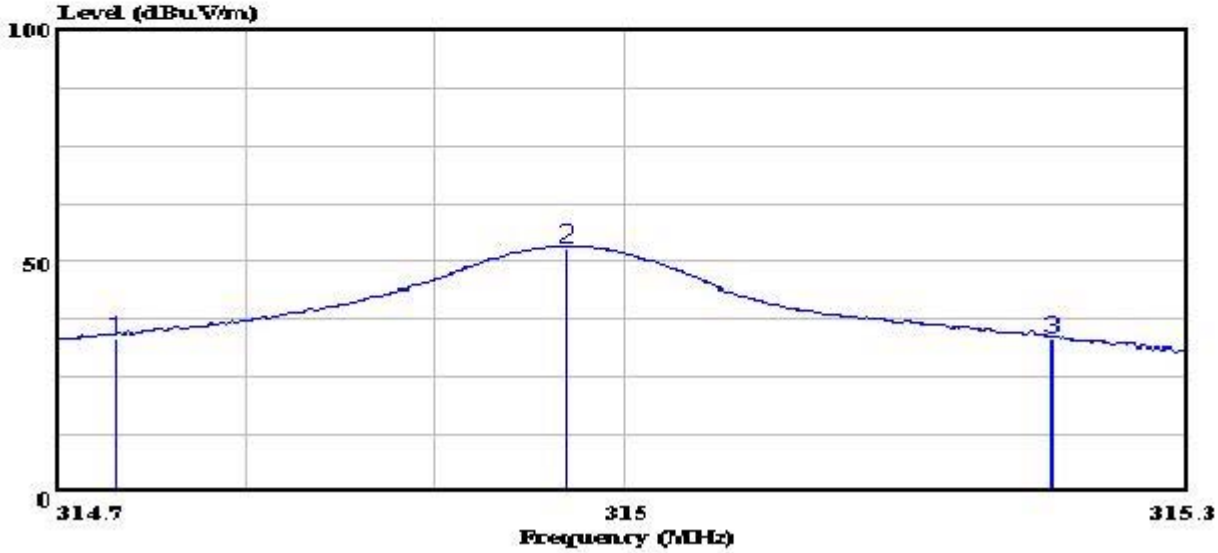

Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000665
Applicant : Mat-Sports LLC
EUT : Remote deer call
M/N : CY-01
S/N : E04070501
Power Supply : DC 12V Battery
Ambient : 20.7C, 53%
Test Mode : **Ratting Antler**
Test Engineer: Solon Gong

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.730	40.80	33.03	------	------	-7.77	15.59	2.87	26.23
2	314.970	60.80	53.05	------	------	-7.75	15.61	2.87	26.23
3	315.227	40.80	33.05	------	------	-7.75	15.61	2.87	26.23

3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
aciemc@audix.com

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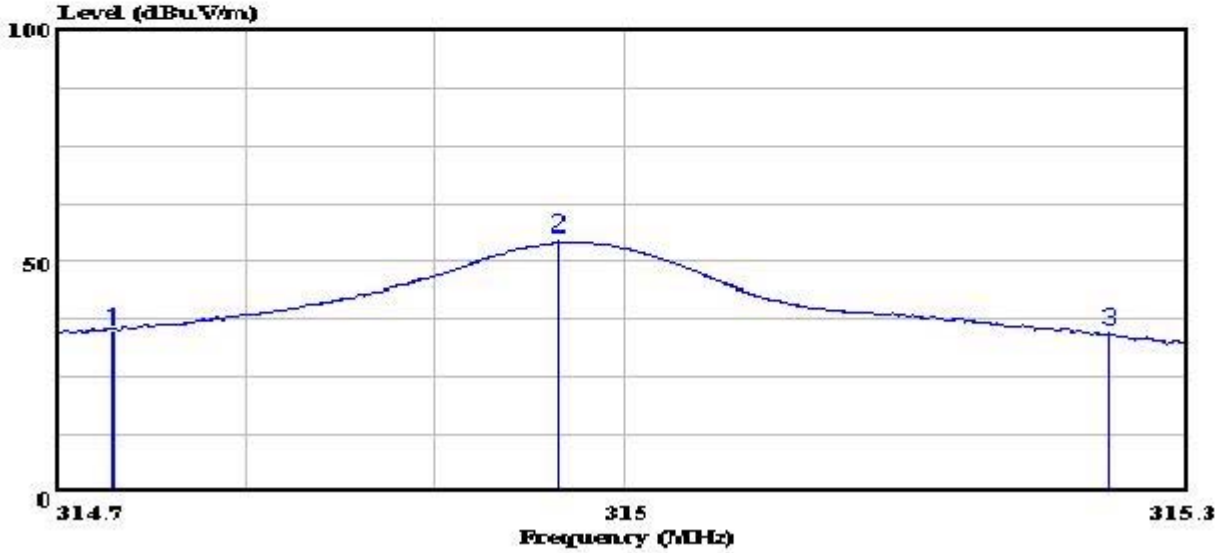

Site : audix-aci NO.3 CHAMBER
Condition : 3m VERTICAL
Project No. : AOE-000665
Applicant : Mat-Sports LLC
EUT : Remote deer call
M/N : CY-01
S/N : E04070501
Power Supply : DC 12V Battery
Ambient : 20.7C, 53%
Test Mode : **Doe Bleat**
Test Engineer: Solon Gong

Page: 1

	Freq	Read Level	Level	Limit Line	Over Limit	Factor	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1	314.730	42.70	34.93	------	------	-7.77	15.59	2.87	26.23
2	314.965	62.70	54.95	------	------	-7.75	15.61	2.87	26.23
3	315.259	42.70	34.95	------	------	-7.75	15.61	2.87	26.23