

APPLICATION CERTIFICATION

On Behalf of
Shenzhen Favoru Co., Ltd.

Remote Controlled Light
Model No.: LKL-2030

FCC ID: W78LKL2030

Prepared for : Shenzhen Favoru Co., Ltd.
Address : A2 Bldg., Gushu, Xin'an Second Industrial Area, Xixiang
Town, Bao'an District, Shenzhen City, Guangdong
Province, China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Report Number : ATE20090296
Date of Test : March 9, 2009
Date of Report : March 10, 2009

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	4
1.1. Description of Device (EUT).....	4
1.2. Description of Test Facility	5
1.3. Measurement Uncertainty	5
2. MEASURING DEVICE AND TEST EQUIPMENT	6
3. SUMMARY OF TEST RESULTS.....	7
4. THE FIELD STRENGTH OF RADIATION EMISSION	8
4.1. Block Diagram of Test Setup.....	8
4.2. The Field Strength of Radiation Emission Measurement Limits.....	9
4.3. Configuration of EUT on Measurement	9
4.4. Operating Condition of EUT	9
4.5. Test Procedure	10
4.6. The Field Strength of Radiation Emission Measurement Results	11
5. 20DB OCCUPIED BANDWIDTH	13
5.1. Block Diagram of Test Setup.....	13
5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section 15.231(c).....	13
5.3. EUT Configuration on Measurement	14
5.4. Operating Condition of EUT	14
5.5. Test Procedure	14
5.6. Measurement Result	15
6. RELEASE TIME MEASUREMENT.....	16
6.1. Block Diagram of Test Setup.....	16
6.2. Release Time Measurement According To FCC Part 15 Section 15.231(a)	16
6.3. EUT Configuration on Measurement	17
6.4. Operating Condition of EUT	17
6.5. Test Procedure	17
6.6. Measurement Result	18
7. AVERAGE FACTOR MEASUREMENT	19
7.1. Block Diagram of Test Setup.....	19
7.2. Average factor Measurement according to ANSI 63.4: 2003.....	19
7.3. EUT Configuration on Measurement	20
7.4. Operating Condition of EUT	20
7.5. Test Procedure	20
7.6. Measurement Result	21

APPENDIX I (TEST CURVES) (10 pages)

Test Report Certification

Applicant : Shenzhen Favoru Co., Ltd.
Manufacturer : Shenzhen Favoru Co., Ltd.
EUT Description : Remote Controlled Light
(A) MODEL NO.: LKL-2030
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: 4.5V DC ("AAA" batteries 3×)

Measurement Procedure Used:

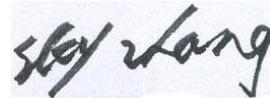
FCC Rules and Regulations Part 15 Subpart C Section 15.231
ANSI 63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY 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 Section 15.231. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

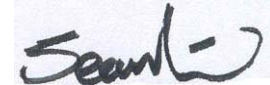
Date of Test : March 9, 2009

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Remote Controlled Light
Model Number	:	LKL-2030
Power Supply	:	4.5V DC (“AAA” batteries 3×)
Operation Frequency	:	433.92MHz
Applicant	:	Shenzhen Favoru Co., Ltd.
Address	:	A2 Bldg., Gushu, Xin’an Second Industrial Area, Xixiang Town, Bao’an District, Shenzhen City, Guangdong Province, China
Manufacturer	:	Shenzhen Favoru Co., Ltd.
Address	:	A2 Bldg., Gushu, Xin’an Second Industrial Area, Xixiang Town, Bao’an District, Shenzhen City, Guangdong Province, China
Date of sample received	:	March 6, 2009
Date of Test	:	March 9, 2009

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.29.2009
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.29.2009
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.29.2009
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	03.31.2009
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2009
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.29.2009
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.19.2009
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.09.2009
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.29.2009
LISN	Schwarzbeck	NSLK8126	8126431	03.29.2009

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.231(b)	Radiated Emission	Compliant
Section 15.231(c)	20dB Bandwidth	Compliant
Section 15.231(a)(1)	Release Time Measurement	Compliant

The product is a manually operated Remote Controlled Light transmitter. Section 15.231 (a) (2), (3), (4) and (5) are not applicable.

4. THE FIELD STRENGTH OF RADIATION EMISSION

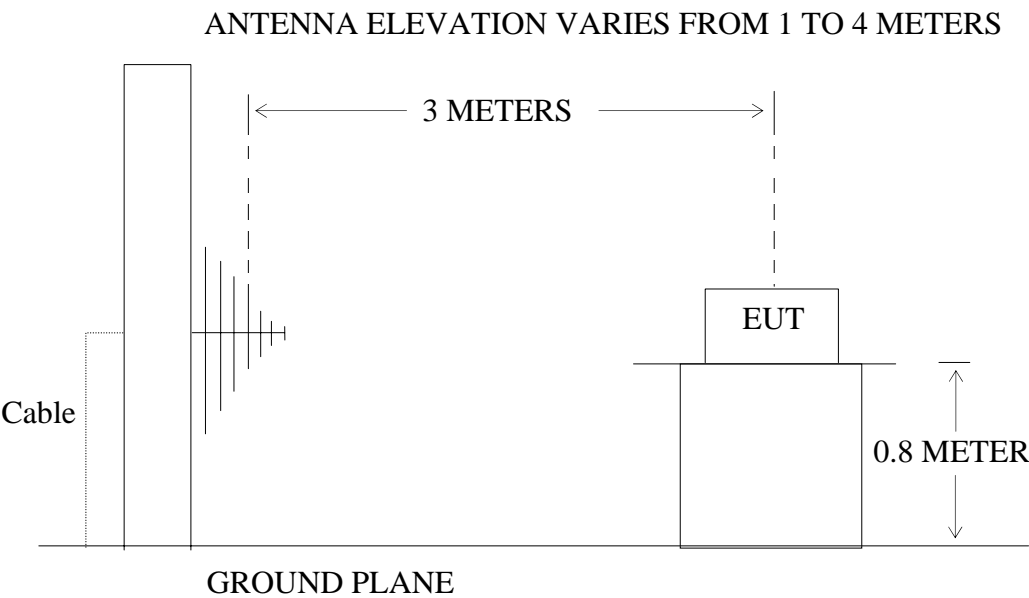
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Remote Controlled Light)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Remote Controlled Light)

4.2.The Field Strength of Radiation Emission Measurement Limits

4.2.1.Radiation Emission Measurement Limits According to FCC Part 15 Section 15.231(b)

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [μV/m]	Field Strength of Spurious Emission [Average] [μV/m]
40.66-40.70	2250	225
70-130	1250	125
130-174	1250-3750	125-375
174-260	3750	375
260-470	3750-12500	375-1250
Above 470	12500	1250

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

4.2.2.Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.

4.3.Configuration of EUT on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Remote Controlled Light (EUT)

Model Number : LKL-2030
 Serial Number : N/A
 Manufacturer : Shenzhen Favoru Co., Ltd.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3. Let the EUT work in TX mode measure it.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI 63.4 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz, and 1MHz in 1000-5000MHz.

The frequency range from 30MHz to 5000MHz is checked.

4.6.The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 4000MHz is investigated.

Date of Test:	March 9, 2009	Temperature:	25°C
EUT:	Remote Controlled Light	Humidity:	50%
Model No.:	LKL-2030	Power Supply:	4.5V DC (“AAA” batteries 3×)
Test Mode:	TX	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor Corr.	Average Factor	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	PEAK	(dB)	(dB)	AV	PEAK	AV	PEAK	AV	PEAK	
*325.3850	21.42	19.57	-7.4	33.59	40.99	46.0	66.0	-12.41	-25.01	Horizontal
433.8490	59.37	22.95	-7.4	74.92	82.32	80.8	100.8	-5.88	-18.48	
867.6982	22.25	28.64	-7.4	43.49	50.89	60.8	80.8	-17.31	-29.91	
*1301.547	66.00	-12.20	-7.4	46.40	53.80	54.0	74.0	-7.60	-20.20	
1735.396	55.23	-10.39	-7.4	37.44	44.84	60.8	80.8	-23.36	-35.96	
2169.245	59.81	-8.38	-7.4	44.03	51.43	60.8	80.8	-16.77	-29.37	
2603.094	60.20	-6.72	-7.4	46.08	53.48	60.8	80.8	-14.72	-27.32	
3036.943	57.20	-4.91	-7.4	44.89	52.29	60.8	80.8	-15.91	-28.51	
3470.792	57.44	-3.31	-7.4	46.73	54.13	60.8	80.8	-14.07	-26.67	Vertical
433.8490	61.76	22.95	-7.4	77.31	84.71	80.8	100.8	-3.49	-16.09	
*1301.547	61.71	-12.20	-7.4	42.11	49.51	54.0	74.0	-11.89	-24.49	
1735.396	56.41	-10.39	-7.4	38.62	46.02	60.8	80.8	-22.18	-34.78	
2169.245	56.04	-8.38	-7.4	40.26	47.66	60.8	80.8	-20.54	-33.14	
2603.094	67.18	-6.72	-7.4	53.06	60.46	60.8	80.8	-7.74	-20.34	
3036.943	61.86	-4.91	-7.4	49.55	56.95	60.8	80.8	-11.25	-23.85	
3470.792	62.22	-3.31	-7.4	51.51	58.91	60.8	80.8	-9.29	-21.89	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. *: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

3. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

4. FCC Limit for Average Measurement = $41.6667(433.9) - 7083.3333 = 10995.85 \mu\text{V/m} = 80.8 \text{ dB}\mu\text{V/m}$

5. The spectral diagrams in appendix I display the measurement of peak values.

5. 20DB OCCUPIED BANDWIDTH

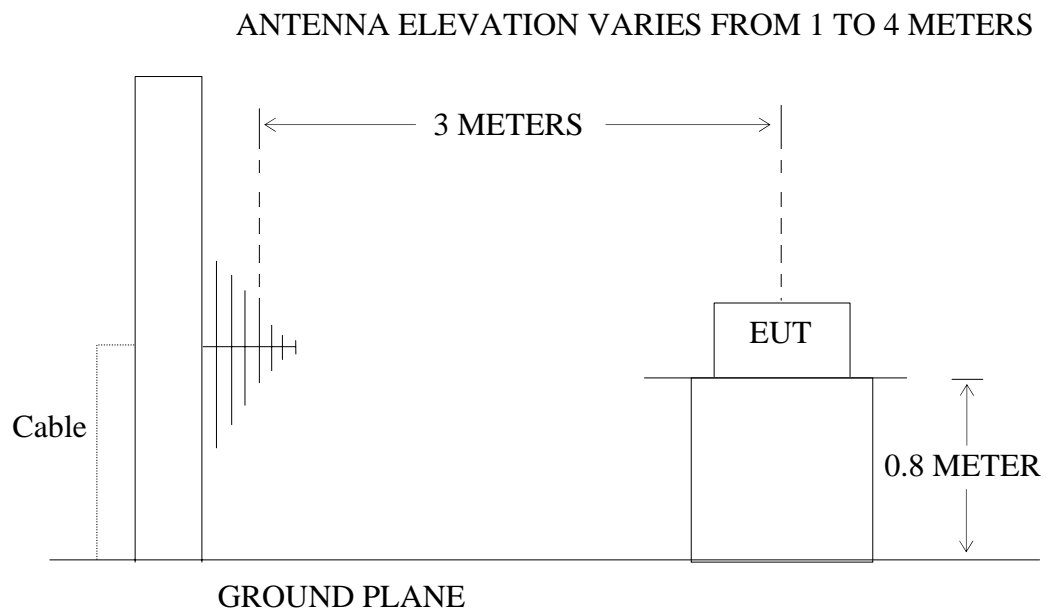
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Remote Controlled Light)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Remote Controlled Light)

5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is $433.9\text{MHz} \times 0.25\% = 1.08\text{MHz}$. Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

5.3.EUT Configuration on Measurement

The following equipment are installed on the bandwidth of emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Remote Controlled Light (EUT)

Model Number : LKL-2030
Serial Number : N/A
Manufacturer : Shenzhen Favoru Co., Ltd.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in TX mode measure it.

5.5.Test Procedure

5.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10kHz, VBW = 30kHz, Span = 500kHz.

5.5.2.Set SPA Max hold. Mark peak, -20dB

5.6.Measurement Result

The EUT does meet the FCC requirement.

-20dB bandwidth = 51.0kHz < 1.08MHz.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

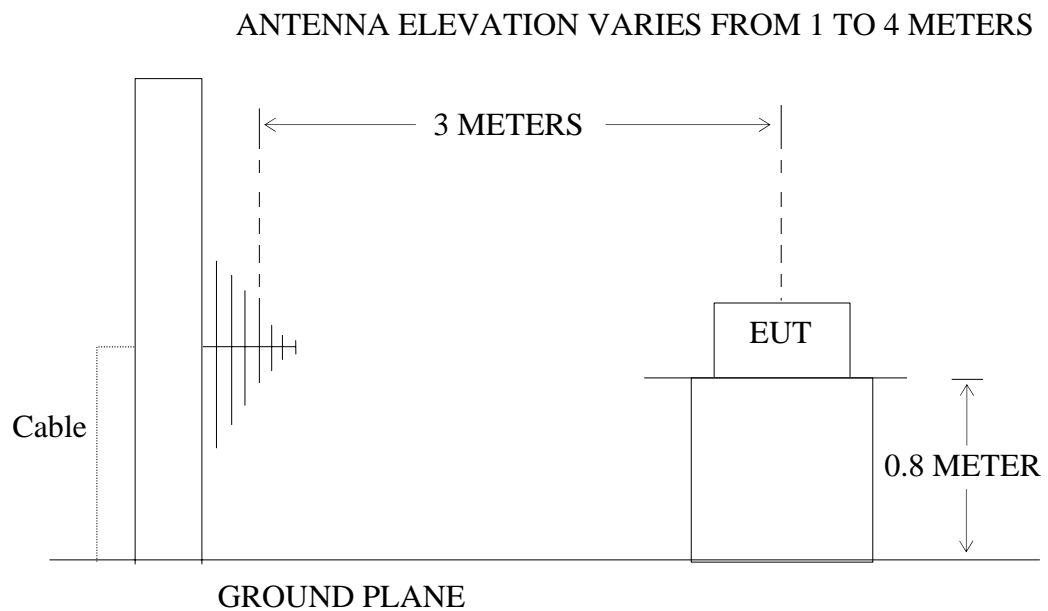
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: Remote Controlled Light)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Remote Controlled Light)

6.2. Release Time Measurement According To FCC Part 15 Section 15.231(a)

Section 15.231(a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

6.3.EUT Configuration on Measurement

The following equipment are installed on Release Time Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Remote Controlled Light (EUT)

Model Number : LKL-2030
Serial Number : N/A
Manufacturer : Shenzhen Favoru Co., Ltd.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX mode measure it.

6.5.Test Procedure

6.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 0Hz. Sweep time = 5 seconds.

6.5.2.Set EUT as normal operation and press Transmitter button.

6.5.3.Set SPA View. Delta Mark time.

6.6. Measurement Result

The release time less than 5 seconds.

Release Time= 160 ms

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

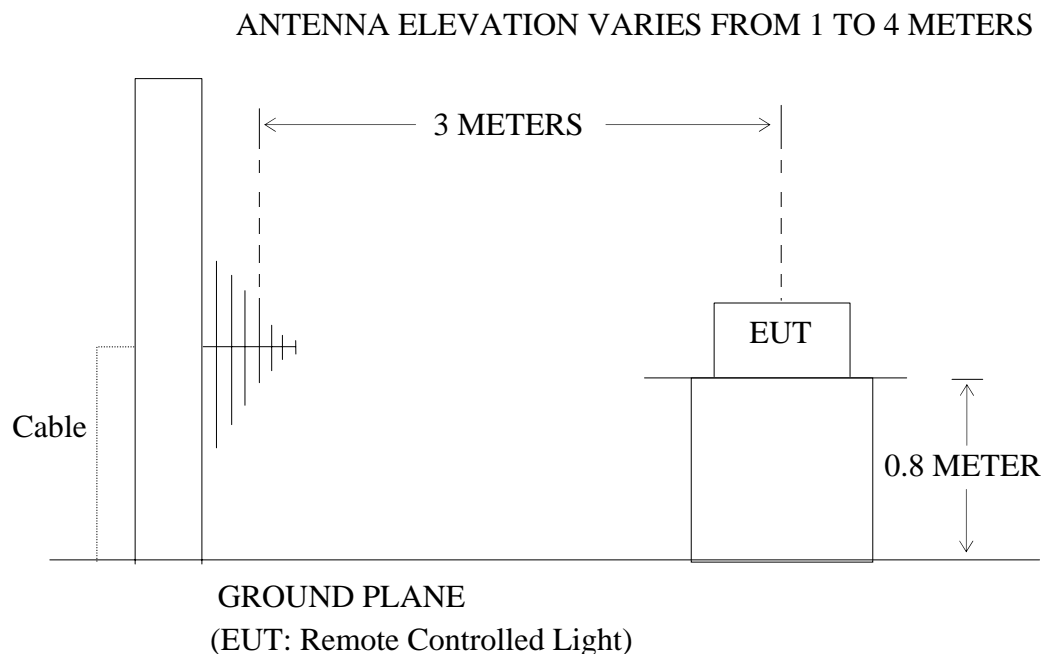
7.1. Block Diagram of Test Setup

7.1.1. Block diagram of connection between the EUT and simulators



(EUT: Remote Controlled Light)

7.1.2. Semi-Anechoic Chamber Test Setup Diagram



7.2. Average factor Measurement according to ANSI 63.4: 2003

ANSI 63.4: 2003 Section 13.1.4.2 Devices transmitting pulsed emissions and subject to a limit requiring an average detector function for radiated emissions shall initially be measured with an instrument that uses a peak detector. A radiated emission measured with a peak detector may then be corrected to a true average using the appropriate factor for emission duty cycle. This correction factor relates the measured peak level to the average limit and is derived by averaging absolute field strength over one complete pulse train that is 0.1 s, or less, in length. If the pulse train is longer than 0.1 s, the average shall be determined from the average absolute field strength during the 0.1 s interval in which the field strength is at a maximum. Instructions on calculating the duty cycle of a transmitter with pulsed emissions are provided in ANSI 63.4 H.4, step j.

Average factor in dB = $20 \log (\text{duty cycle})$

7.3.EUT Configuration on Measurement

The following equipment are installed on average factor Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Remote Controlled Light (EUT)

Model Number : LKL-2030
Serial Number : N/A
Manufacturer : Shenzhen Favoru Co., Ltd.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 7.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX mode measure it.

7.5.Test Procedure

7.5.1.The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.

7.5.2.Set SPA Center Frequency = Fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 0Hz.

7.5.3.Set EUT as normal operation.

7.5.4.Set SPA View. Delta Mark time.

7.6. Measurement Result

The duty cycle is simply the on time divided by the period:

The duration of one cycle = 17.56 ms

Effective period of the cycle = $(12 \times 0.444) + (13 \times 0.164)$ ms = 7.46 ms

DC = $7.46 \text{ ms} / 17.56 \text{ ms} = 0.4248$

Therefore, the average factor is found by $20\log 0.4248 = -7.4\text{dB}$

The spectral diagrams in appendix I.

APPENDIX I (Test Curves)



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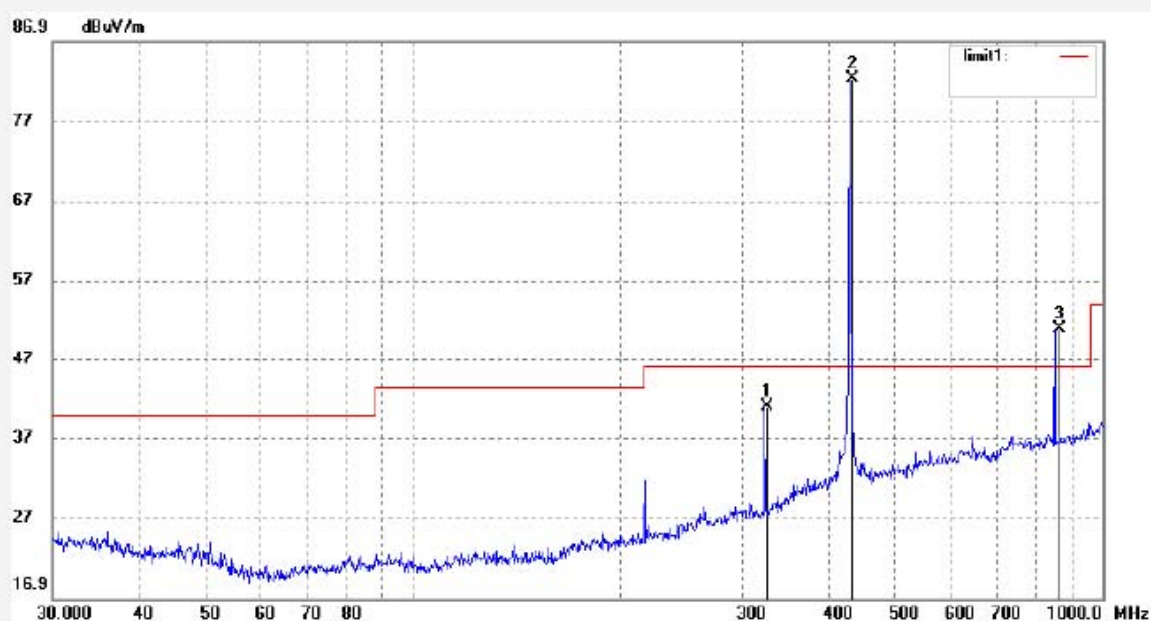
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Favoru #3
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Remote Controlled Light
Mode: TX
Model: LKL-2030
Manufacturer: Shenzhen Favoru Co., Ltd.

Polarization: Horizontal
Power Source: DC 3V
Date: 2009/03/09
Time: 11:37:01
Engineer Signature: Joe
Distance: 3m

Note: Report No.: ATE20090296



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	325.3850	21.42	19.57	40.99	66.0	-25.01	peak			
2	433.8490	59.37	22.95	82.32	100.8	-18.48	peak			
3	867.6982	22.25	28.64	50.89	80.8	-29.91	peak			



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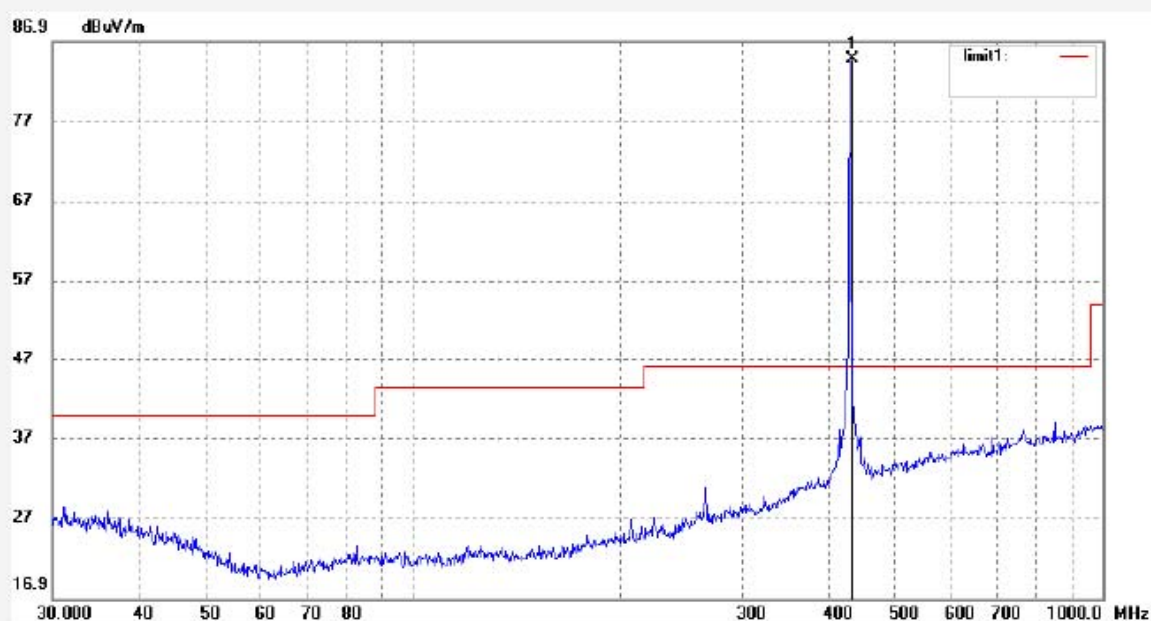
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Favoru #4
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: Remote Controlled Light
Mode: TX
Model: LKL-2030
Manufacturer: Shenzhen Favoru Co., Ltd.

Polarization: Vertical
Power Source: DC 3V
Date: 2009/03/09
Time: 11:45:15
Engineer Signature: Joe
Distance: 3m

Note: Report No.: ATE20090296



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	433.8490	61.76	22.95	84.71	100.8	-16.09	peak			


ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Favoru #2

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Remote Controlled Light

Mode: TX

Model: LKL-2030

Manufacturer: Shenzhen Favoru Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

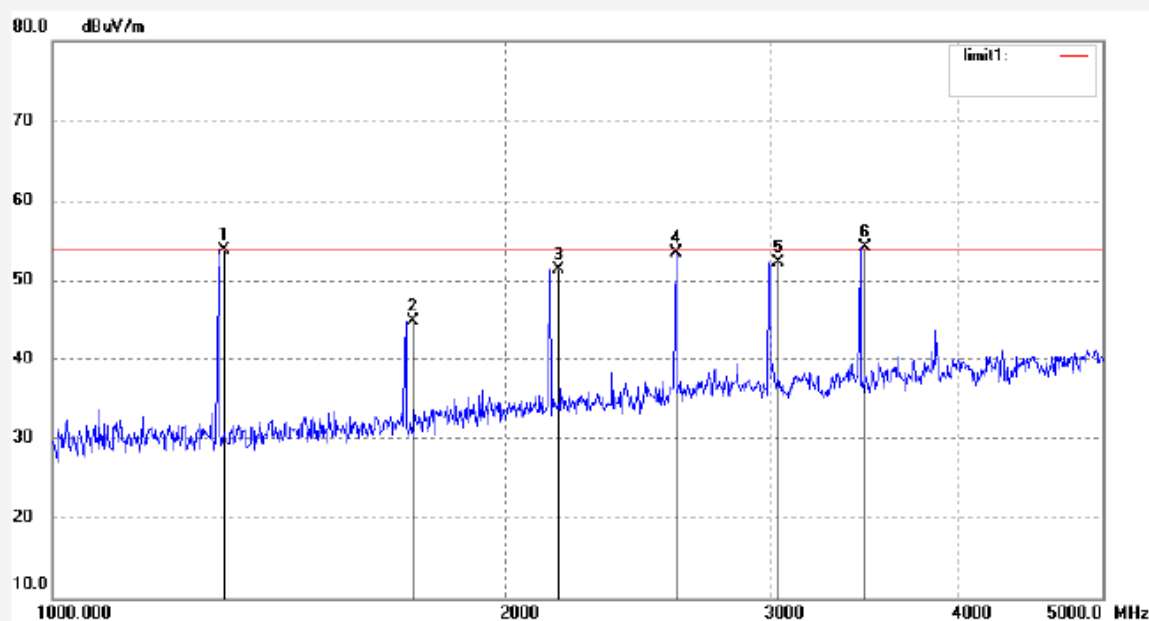
Date: 2009/03/09

Time: 11:28:43

Engineer Signature: Joe

Distance: 3m

Note: Report No.: ATE20090296



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.547	66.00	-12.20	53.80	74.0	-20.20	peak			
2	1735.396	55.23	-10.39	44.84	80.8	-35.96	peak			
3	2169.245	59.81	-8.38	51.43	80.8	-29.37	peak			
4	2603.094	60.20	-6.72	53.48	80.8	-27.32	peak			
5	3036.943	57.20	-4.91	52.29	80.8	-28.51	peak			
6	3470.792	57.44	-3.31	54.13	80.8	-26.67	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Favoru #1

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Remote Controlled Light

Mode: TX

Model: LKL-2030

Manufacturer: Shenzhen Favoru Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

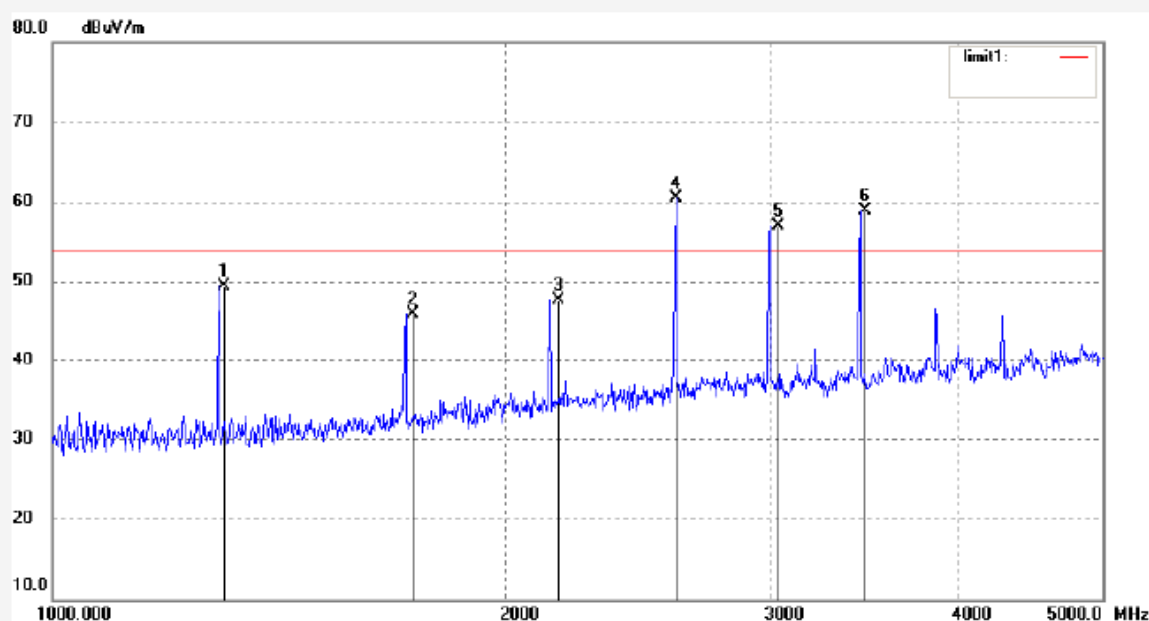
Date: 2009/03/09

Time: 11:26:57

Engineer Signature: Joe

Distance: 3m

Note: Report No.: ATE20090296



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.547	61.71	-12.20	49.51	74.0	-24.49	peak			
2	1735.396	56.41	-10.39	46.02	80.8	-34.78	peak			
3	2169.245	56.04	-8.38	47.66	80.8	-33.14	peak			
4	2603.094	67.18	-6.72	60.46	80.8	-20.34	peak			
5	3036.943	61.86	-4.91	56.95	80.8	-23.85	peak			
6	3470.792	62.22	-3.31	58.91	80.8	-21.89	peak			



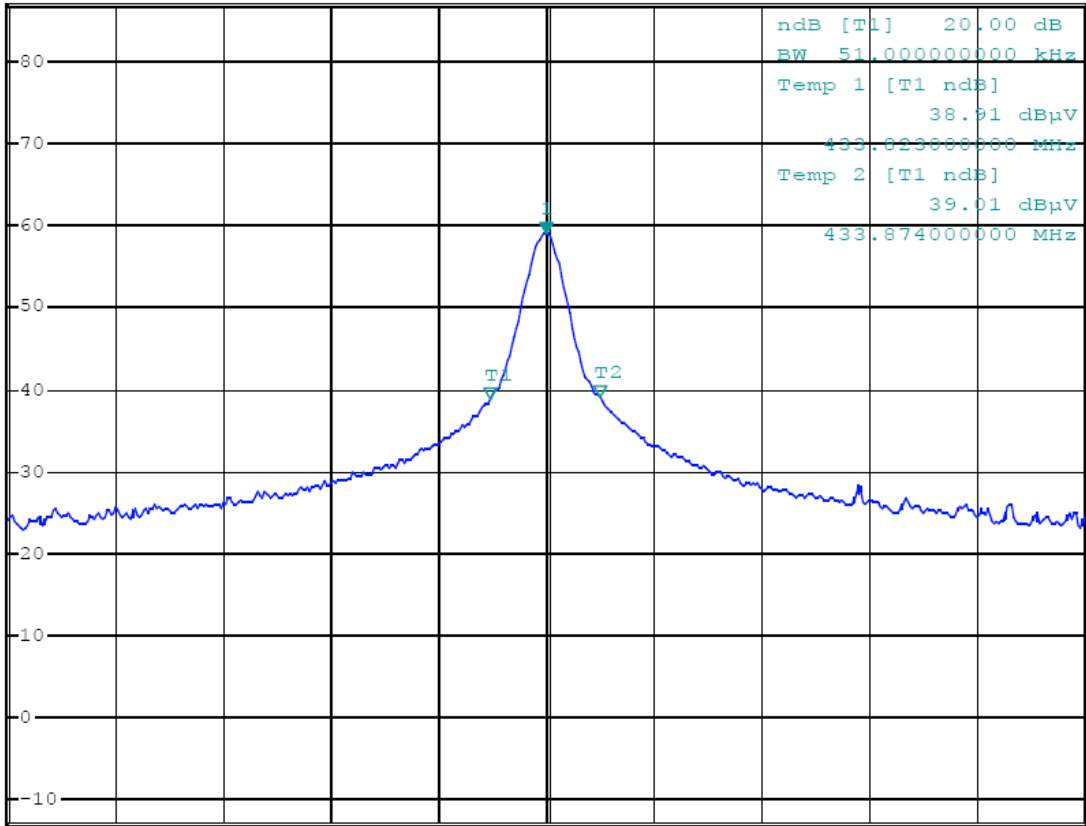
*RBW 10 kHz Marker 1 [T1]
VBW 30 kHz 59.02 dBμV
SWT 5 ms 433.849000000 MHz

Ref 87 dBμV

Att 10 dB

433.849000000 MHz

1 PK
MAXH

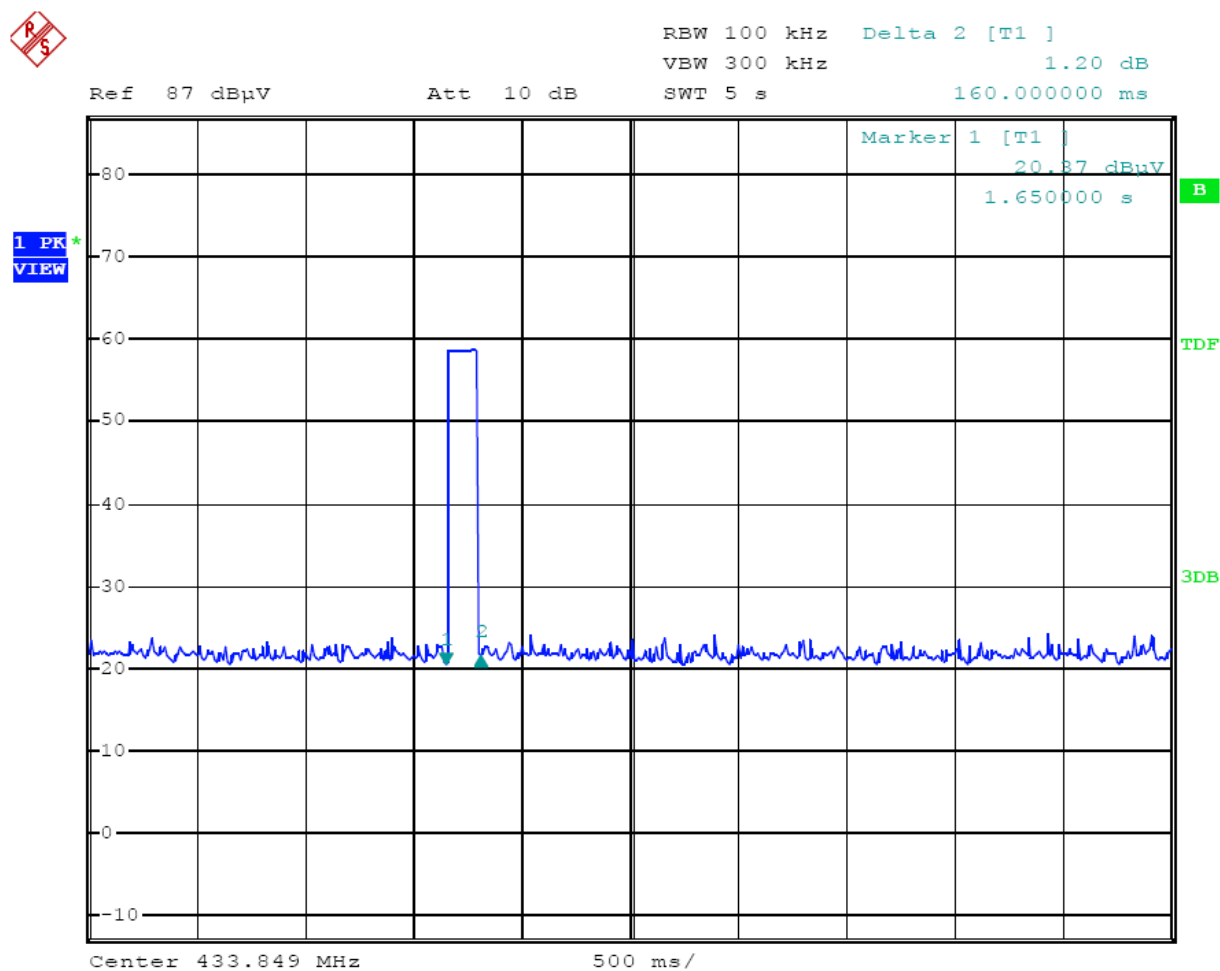


Center 433.849 MHz

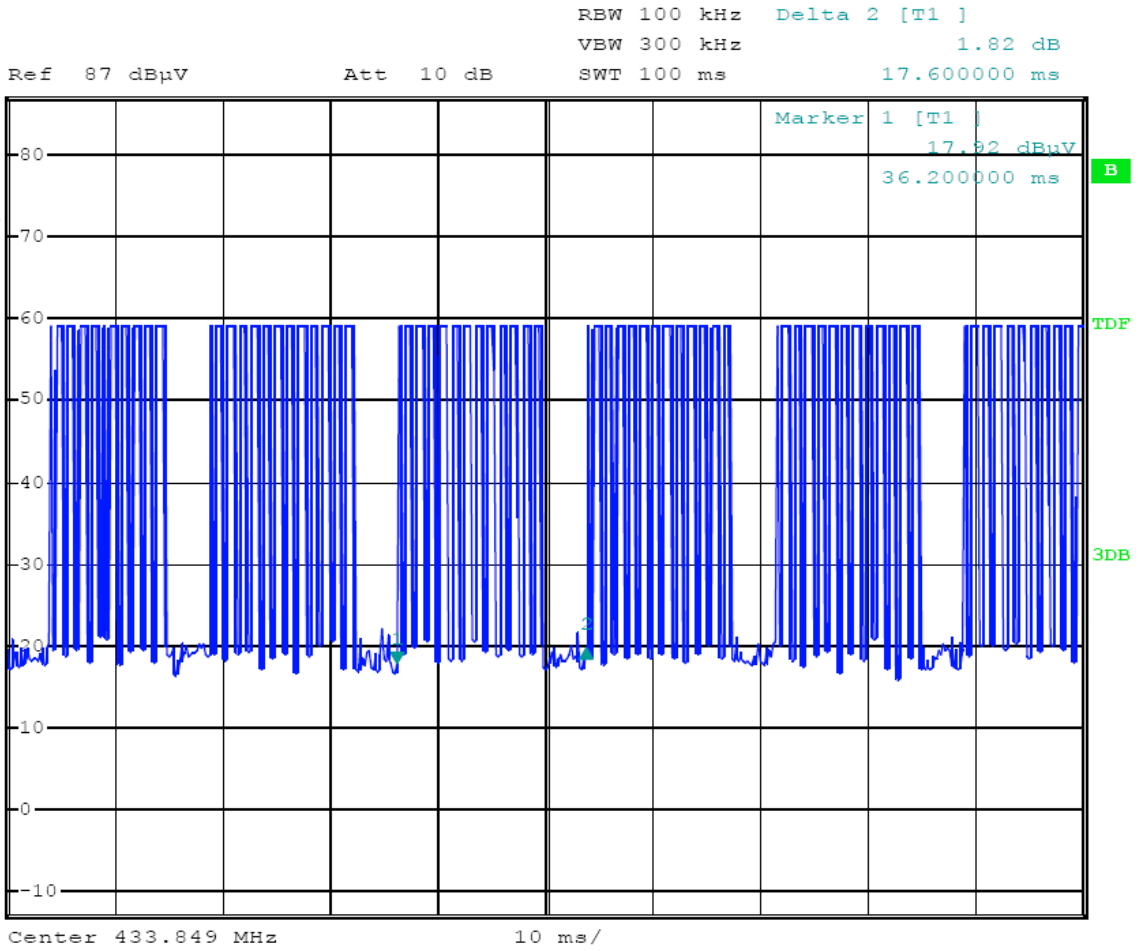
50 kHz/

Span 500 kHz

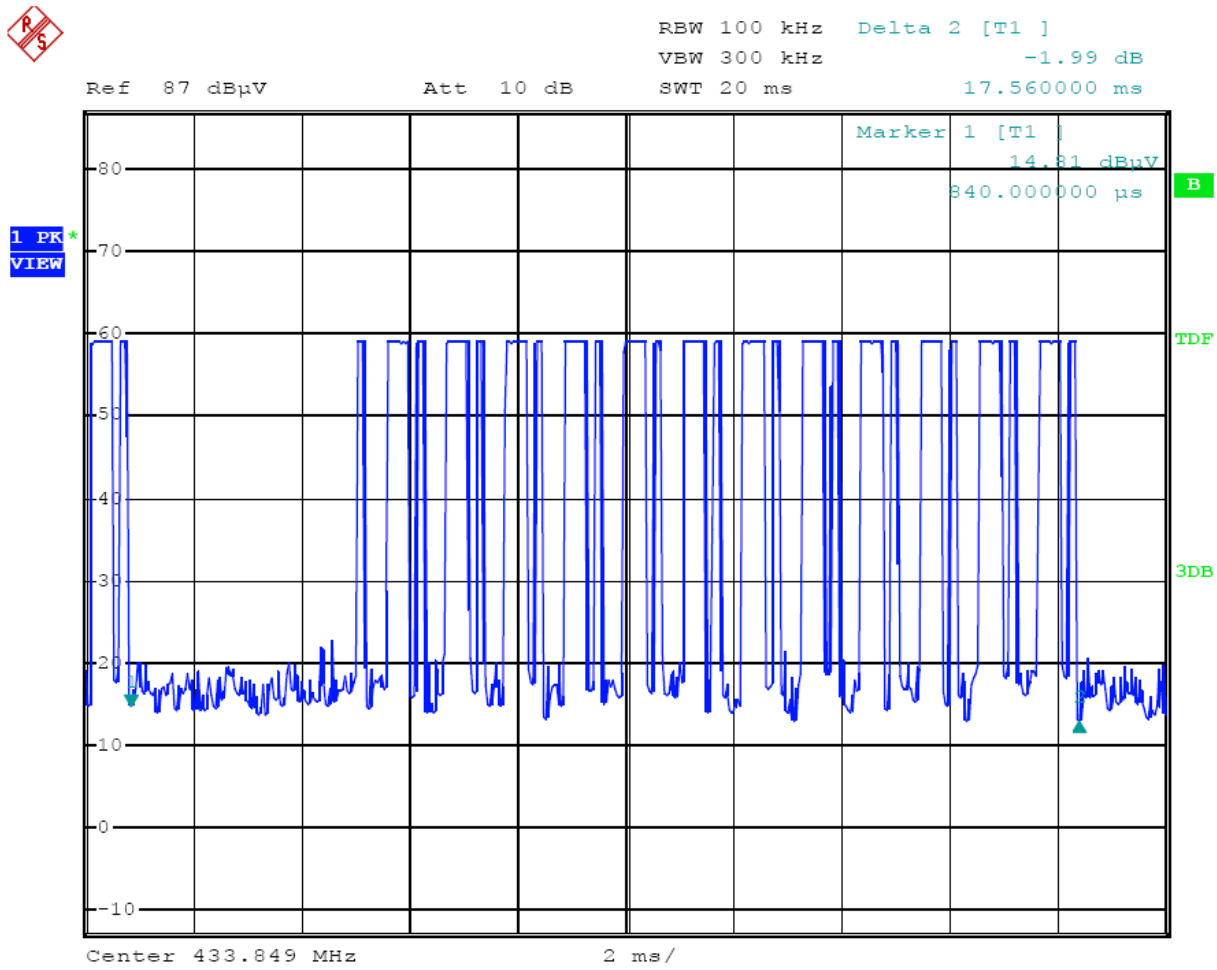
Date: 9.MAR.2009 13:45:55



Date: 9.MAR.2009 14:01:26

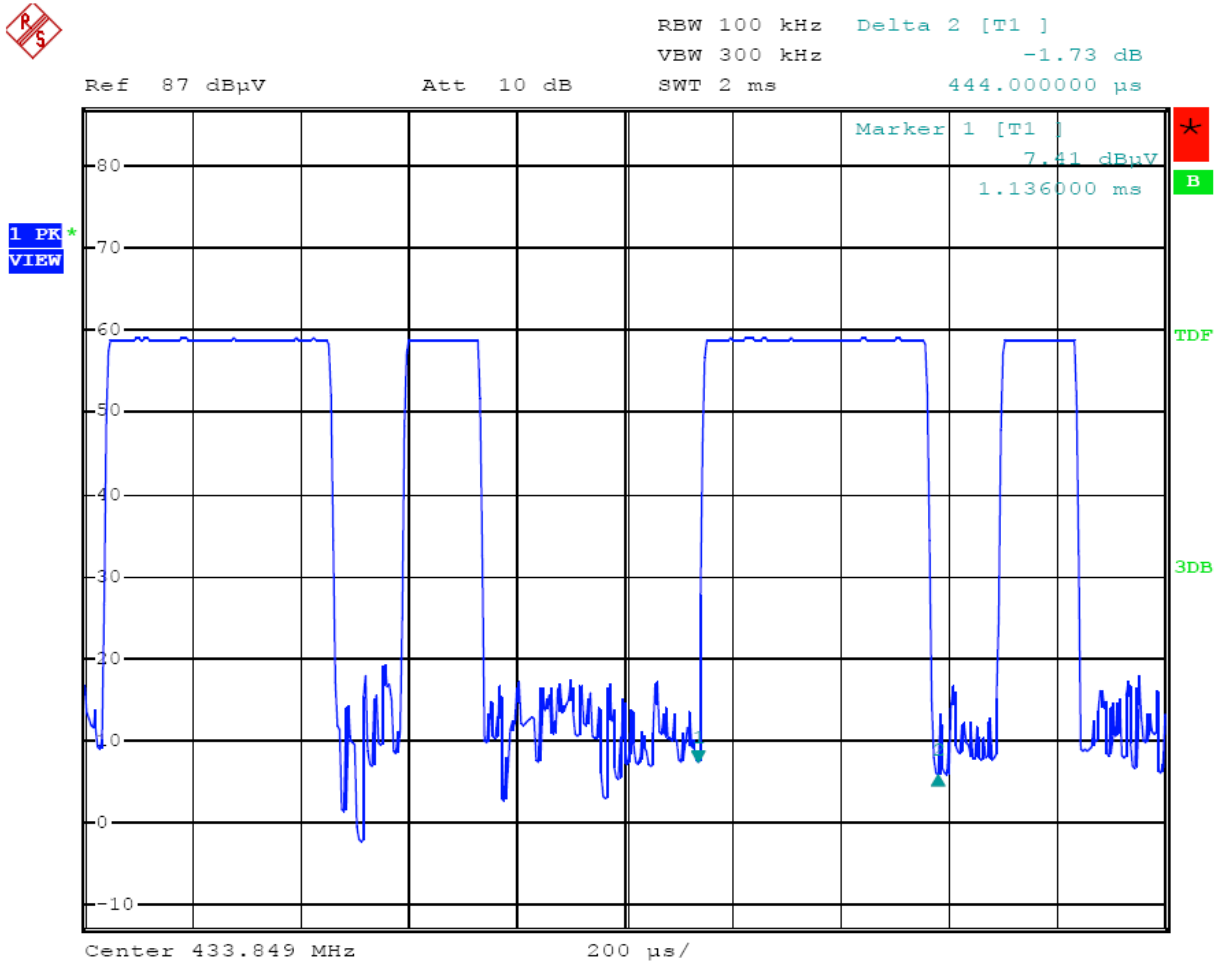


Date: 9.MAR.2009 13:48:57



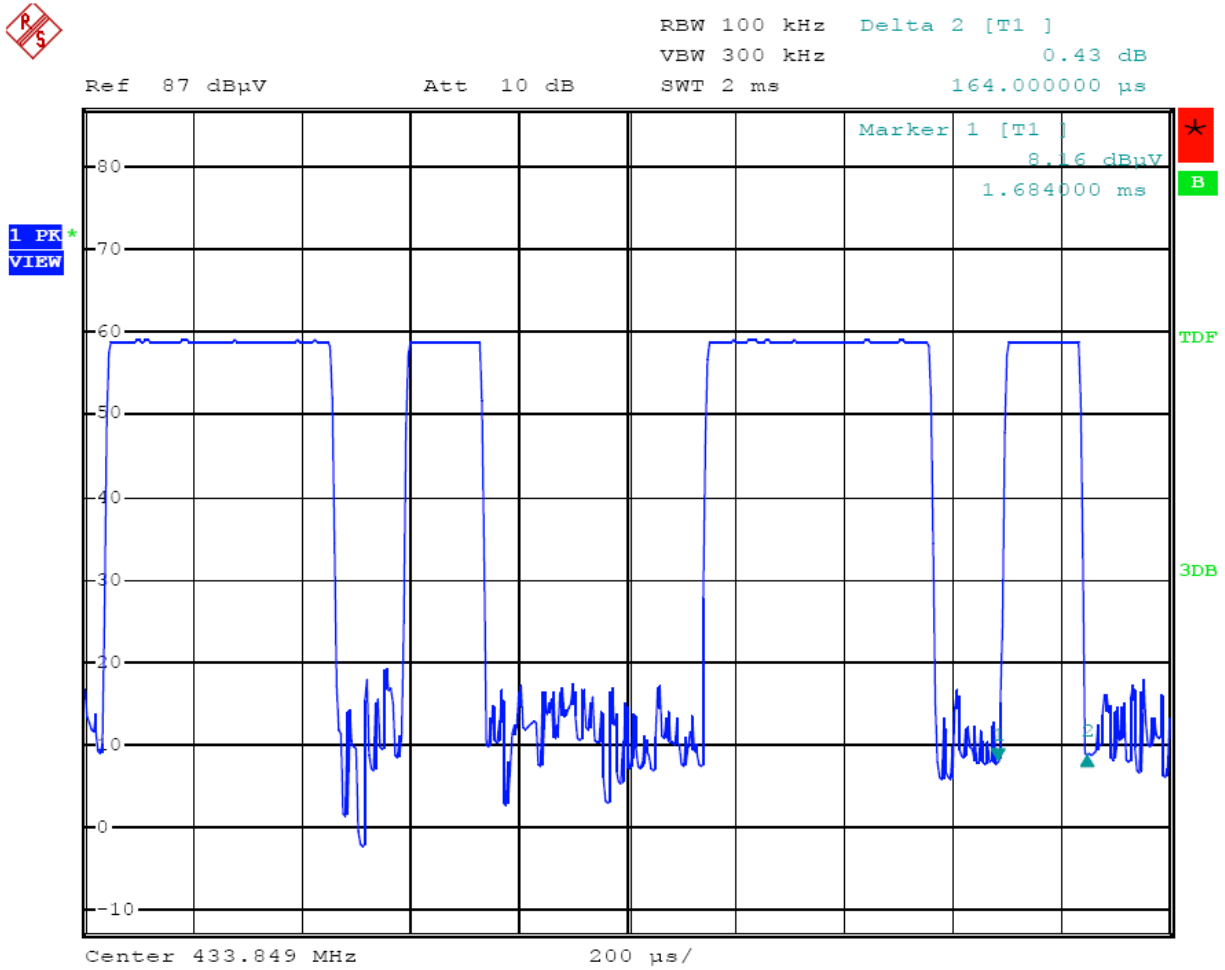
Date: 9.MAR.2009 13:51:31

The graph shows the pattern of coding during the signal transmission.
It sums of 12 long 'on' signals and 13 short 'on' signals.



Date: 9.MAR.2009 13:56:53

The graph shows the duration of long 'on' signal. From marker 1 to marker 2, duration is 0.444 ms.



Date: 9.MAR.2009 13:56:23

The graph shows the duration of short 'on' signal. From marker 1 to marker 2, duration is 0.164ms.