

APPLICATION CERTIFICATION
On Behalf of
Carewell Electric Technology (Zhongshan) Co., Ltd.

REMOTE CONTROL
Model No.: FAN67T-3SP

FCC ID: 2AAZPFAN67T3SP

Prepared for : Carewell Electric Technology (Zhongshan) Co., Ltd.
Address : Torch Development Zone, No.2, Ouya Road, Zhongshan,
Guangdong, China

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report Number : ATE20172440
Date of Test : Dec. 05, 2017-Dec. 25, 2017
Date of Report : Dec. 26, 2017

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Test Report Certification

Applicant : Carewell Electric Technology (Zhongshan) Co., Ltd.
Manufacturer : Carewell Electric Technology (Zhongshan) Co., Ltd.
EUT Description : REMOTE CONTROL
(A) MODEL NO.: FAN67T-3SP
(B) SERIAL NO.: 1701985
(C) POWER SUPPLY: DC 12V(Battery)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.231a ANSI C63.10-2013

The device described above is tested by SHENZHEN 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 15.231a. The measurement results are contained in this test report and SHENZHEN 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 SHENZHEN ACCURATE TECHNOLOGY CO., LTD.

Date of Test : Dec. 05, 2017-Dec. 25, 2017
Date of Report: Dec. 26, 2017

Prepared by : _____
(Tim. Zhang, Engineer)

Approved & Authorized Signer : _____
(Sean Liu, Manager)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	REMOTE CONTROL
Model Number	:	FAN67T-3SP
Power Supply	:	DC 12V (powered by battery)
Modulation:	:	ASK
Operation Frequency	:	315MHz
Antenna type	:	PCB antenna
Antenna gain	:	0dBi
Applicant	:	Carewell Electric Technology (Zhongshan) Co., Ltd.
Address	:	Torch Development Zone, No.2, Ouya Road, Zhongshan, Guangdong, China
Manufacturer	:	Carewell Electric Technology (Zhongshan) Co., Ltd.
Address	:	Torch Development Zone, No.2, Ouya Road, Zhongshan, Guangdong, China
Date of sample received	:	Dec. 05, 2017
Date of Test	:	Dec. 05, 2017-Dec. 25, 2017

1.2. Description of Test Facility

- EMC Lab : Recognition of accreditation by Federal Communications Commission (FCC)
The Designation Number is CN1189
The Registration Number is 708358
- Listed by Innovation, Science and Economic Development Canada (ISED)
The Registration Number is 5077A-2
- Accredited by China National Accreditation Service for Conformity Assessment (CNAS)
The Registration Number is CNAS L3193
- Accredited by American Association for Laboratory Accreditation (A2LA)
The Certificate Number is 4297.01
- Name of Firm : Shenzhen Accurate Technology Co., Ltd.
Site Location : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.3. Measurement Uncertainty

- Conducted Emission Expanded Uncertainty = 2.23dB, k=2
- Radiated emission expanded uncertainty (9kHz-30MHz) = 3.08dB, k=2
- Radiated emission expanded uncertainty (30MHz-1000MHz) = 4.42dB, k=2
- Radiated emission expanded uncertainty (Above 1GHz) = 4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 07, 2017	Jan. 06, 2018
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 07, 2017	Jan. 06, 2018
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 07, 2017	Jan. 06, 2018
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 07, 2017	Jan. 06, 2018
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 07, 2017	Jan. 06, 2018
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 13, 2017	Jan. 12, 2018
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 13, 2017	Jan. 12, 2018
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 13, 2017	Jan. 12, 2018
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 13, 2017	Jan. 12, 2018
Open Switch and Control Unit	Rohde&Schwarz	OSP120 + OSP-B157	101244 + 100866	Jan. 07, 2017	Jan. 06, 2018
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 07, 2017	Jan. 06, 2018
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 07, 2017	Jan. 06, 2018
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 07, 2017	Jan. 06, 2018
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 07, 2017	Jan. 06, 2018

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
Section 15.203	Antenna Requirement	Compliant

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

Note: The power supply mode of the EUT is DC 12V, According to the FCC standard requirements, conducted emission is not applicable

All normal using modes of the normal function were tested but only the worst test data of the worst mode is recorded by this report.

4. THE FIELD STRENGTH OF RADIATION EMISSION

4.1. Block Diagram of Test Setup

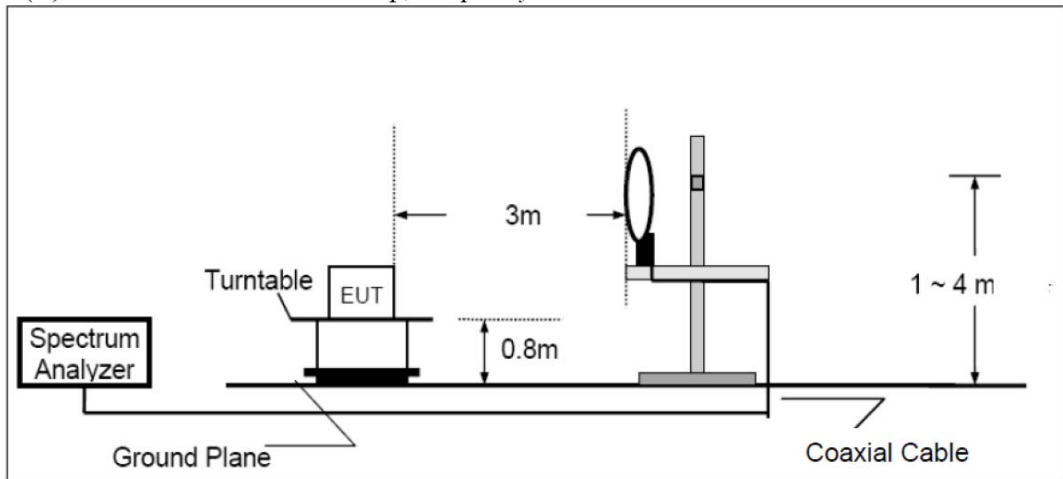
4.1.1. Block diagram of connection between the EUT and simulators



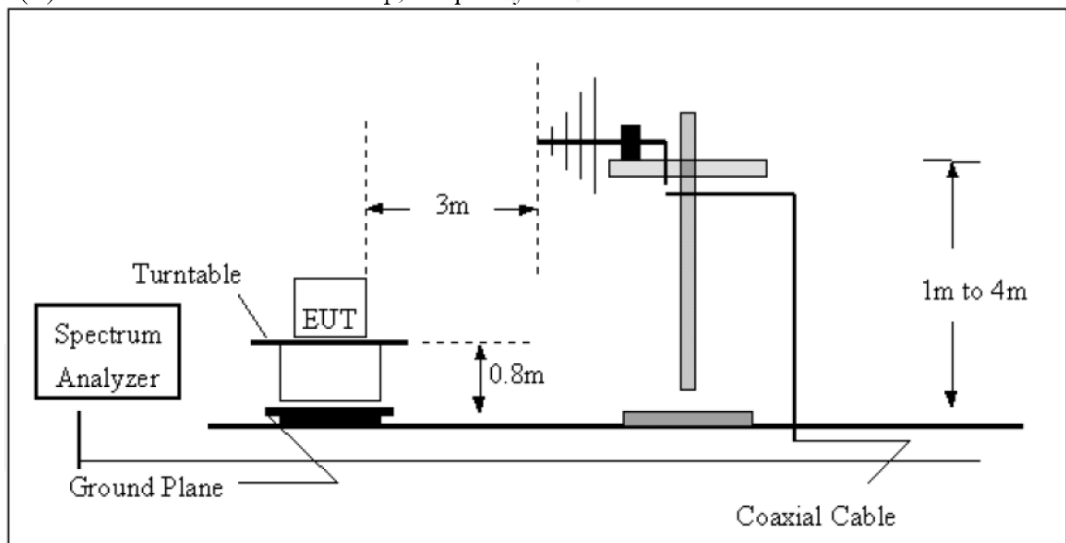
(EUT: REMOTE CONTROL)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram

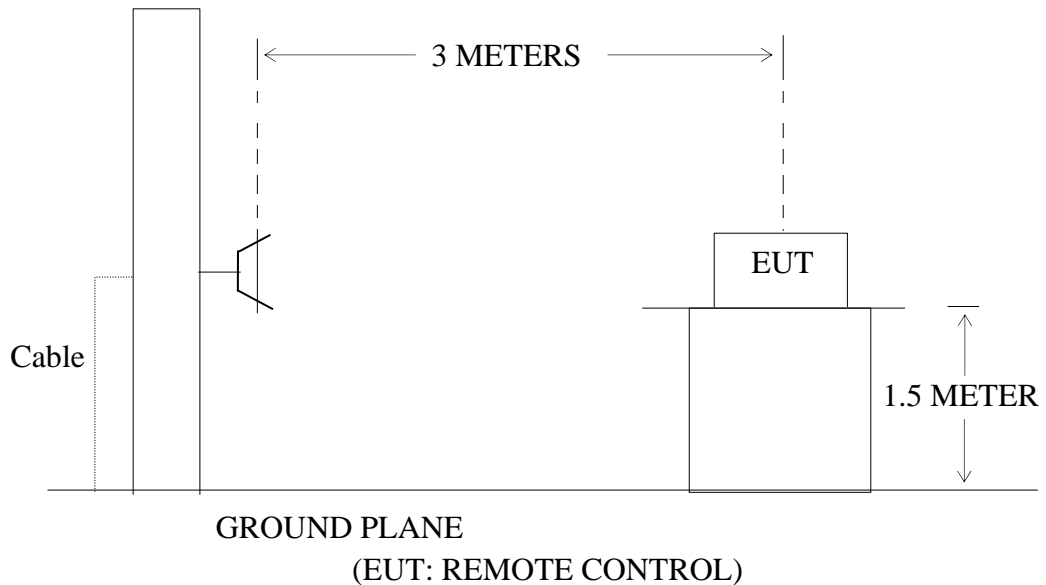
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



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] [$\mu\text{V}/\text{m}$]	Field Strength of Spurious Emission [Average] [$\mu\text{V}/\text{m}$]
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, $\mu\text{V}/\text{m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V}/\text{m}$ 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 Section 15.209.

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 CONTROL (EUT)

Model Number : FAN67T-3SP
Serial Number : 1701985
Manufacturer : Carewell Electric Technology (Zhongshan) 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 (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground (Above 1GHz). 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 C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120 kHz in 30-1000 MHz, and 1 MHz in 1000-4000 MHz.

The frequency range from 9kHz to 4000MHz is checked.

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

Note: The radiation emissions from 9KHz-30MHz are not reported, because the test values lower than the limits of 20dB.

EUT:	<u>REMOTE CONTROL</u>		
Model No.:	<u>FAN67T-3SP</u>	Power Supply:	<u>DC 12V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Star</u>

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Average Factor (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	PEAK			AV	PEAK	AV	AV	PEAK		
315.16	96.54	-20.76	-7.06	68.72	75.78	75.62	95.62	-6.90	-19.84	Horizontal
630.29	64.98	-13.17	-7.06	44.75	51.81	55.62	75.62	-10.87	-23.81	
945.42	51.89	-6.57	-7.06	38.26	45.32	55.62	75.62	-17.36	-30.30	
1260.75	56.95	-10.48	-7.06	39.41	46.47	54	74	-14.59	-27.53	
2205.83	55.36	-7.23	-7.06	41.07	48.13	54	74	-12.93	-25.87	
315.16	99.45	-20.76	-7.06	71.63	78.69	75.62	95.62	-3.99	-16.93	Vertical
630.29	63.68	-13.17	-7.06	44.12	51.18	55.62	75.62	-11.5	-24.44	
945.42	53.46	-6.57	-7.06	39.83	46.89	55.62	75.62	-15.79	-28.73	
1260.75	55.45	-10.48	-7.06	37.91	44.97	54	74	-16.09	-29.03	
1890.72	54.29	-8.61	-7.06	38.62	45.68	54	74	-15.38	-28.32	

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. 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
3. FCC Limit for Average Measurement = $41.6667(315)-7083.3333 = 6041.6772 \mu\text{V/m} = 75.62 \mu\text{V/m}$
4. The spectral diagrams in appendix I display the measurement of peak values.
5. Average value= PK value + Average Factor (duty factor)
6. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.
7. The EUT is tested radiation emission in three axes(X,Y,Z). The worst emissions are reported in three axes.

8. Pulse Desensitization Correction Factor

Pulse Width (PW) = 0.4ms

$2/PW = 2/0.4\text{ms} = 5\text{kHz}$

RBW (100 kHz) > 2/PW (5kHz)

Therefore PDCF is not needed

5. 20DB OCCUPIED BANDWIDTH

5.1. Block Diagram of Test Setup



(EUT: REMOTE CONTROL)

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 $315 \text{ MHz} \times 0.25\% = 787.5 \text{ kHz}$. 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 CONTROL (EUT)

Model Number : FAN67T-3SP
Serial Number : 1701985
Manufacturer : Carewell Electric Technology (Zhongshan) 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 = 10 kHz, VBW = 30 kHz, Span = 500kHz.

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

5.6. Measurement Result

The EUT does meet the FCC requirement.

-20 dB bandwidth = 58 kHz < 787.5 kHz.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

6.1. Block Diagram of Test Setup



(EUT: REMOTE CONTROL)

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 CONTROL (EUT)

Model Number : FAN67T-3SP
Serial Number : 1701985
Manufacturer : Carewell Electric Technology (Zhongshan) 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 = 100 kHz, VBW = 300 kHz, Span = 0 Hz. Sweep time = 10 s.

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 = 2.2s

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: REMOTE CONTROL)

7.2. Average factor Measurement according to ANSI C63.10-2013

ANSI C63.10-2013 Section 7.5 Unless otherwise specified, when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 s (100 ms). In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval.⁶⁴ The following procedure is an example of how the average value may be determined. The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation (10):

Average factor in dB = 20 log (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 CONTROL

Model Number : FAN67T-3SP
 Serial Number : 1701985
 Manufacturer : Carewell Electric Technology (Zhongshan) 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 = 100 kHz, VBW = 300 kHz, Span = 0 Hz.

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 = 34.0ms

Effective period of the cycle = $(0.76 \times 13) + (0.4 \times 13)$ ms = 15.08 ms

DC = $15.08\text{ms} / 34.0\text{ms} = 0.4435$

Therefore, the average factor is found by $20\log 0.4435 = -7.06\text{dB}$

The spectral diagrams in appendix I.

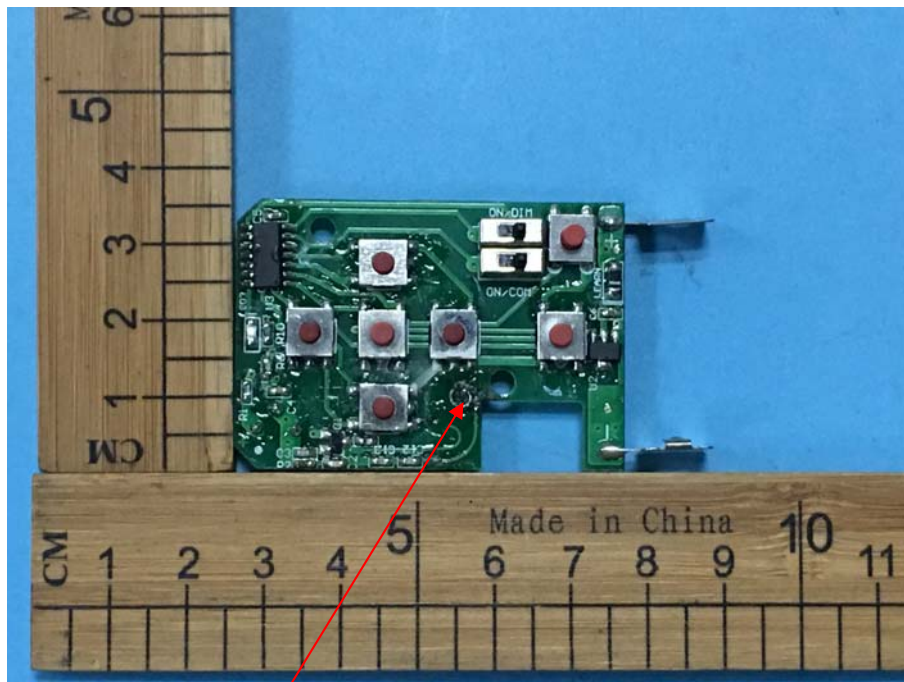
8. ANTENNA REQUIREMENT

8.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

APPENDIX I (Test Curves)



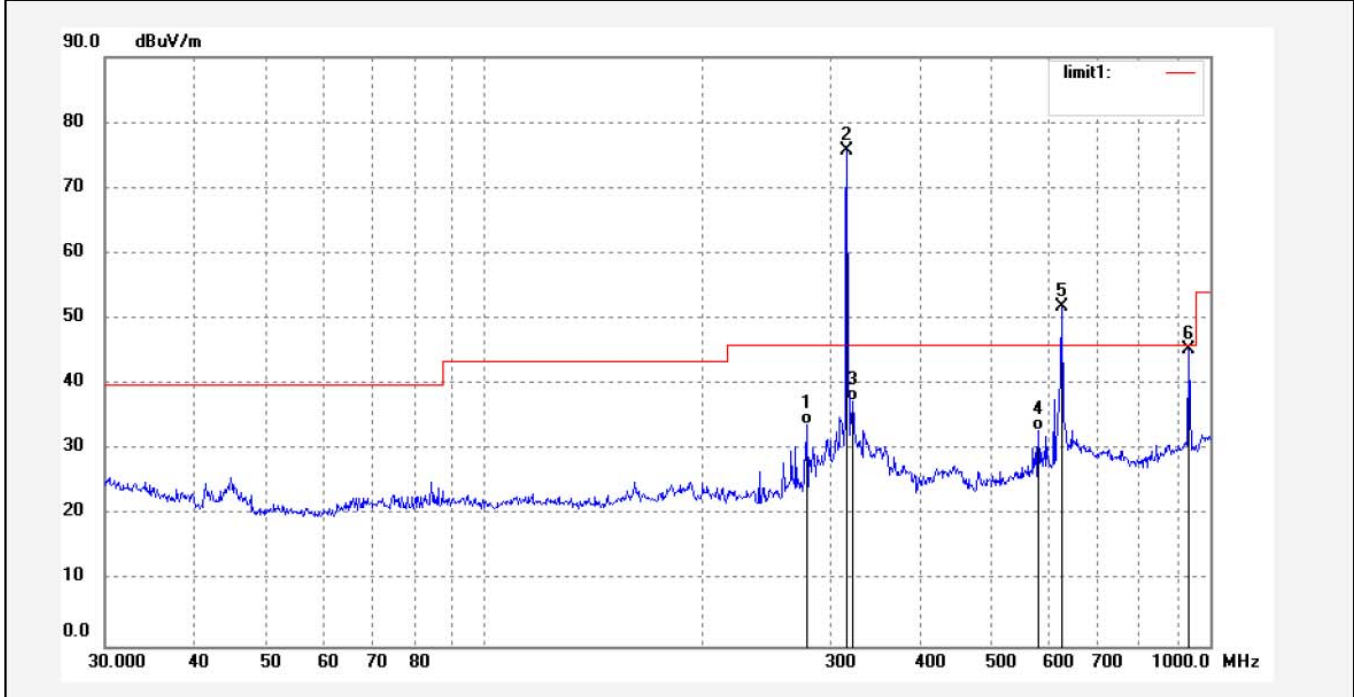
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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: frank2017 #1801	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2017/12/13
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 15:40:36
EUT: REMOTE CONTROL	Engineer Signature: Frank
Mode: TX 315MHz	Distance: 3m
Model: FAN67T-3SP	
Manufacturer: Carewell Electric Technology (Zhongshan) Co., Ltd	

Note: Report NO.:ATE20172440



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	278.3308	56.09	-22.21	33.88	46.00	-12.12	QP	200	147	
2	315.1599	96.54	-20.76	75.78			peak	153	39	
3	321.4581	58.03	-20.56	37.47	46.00	-8.53	QP	200	248	
4	580.0705	47.02	-14.11	32.91	46.00	-13.09	QP	200	327	
5	630.2896	64.98	-13.17	51.81			peak	160	312	
6	945.4213	51.89	-6.57	45.32			peak	165	331	



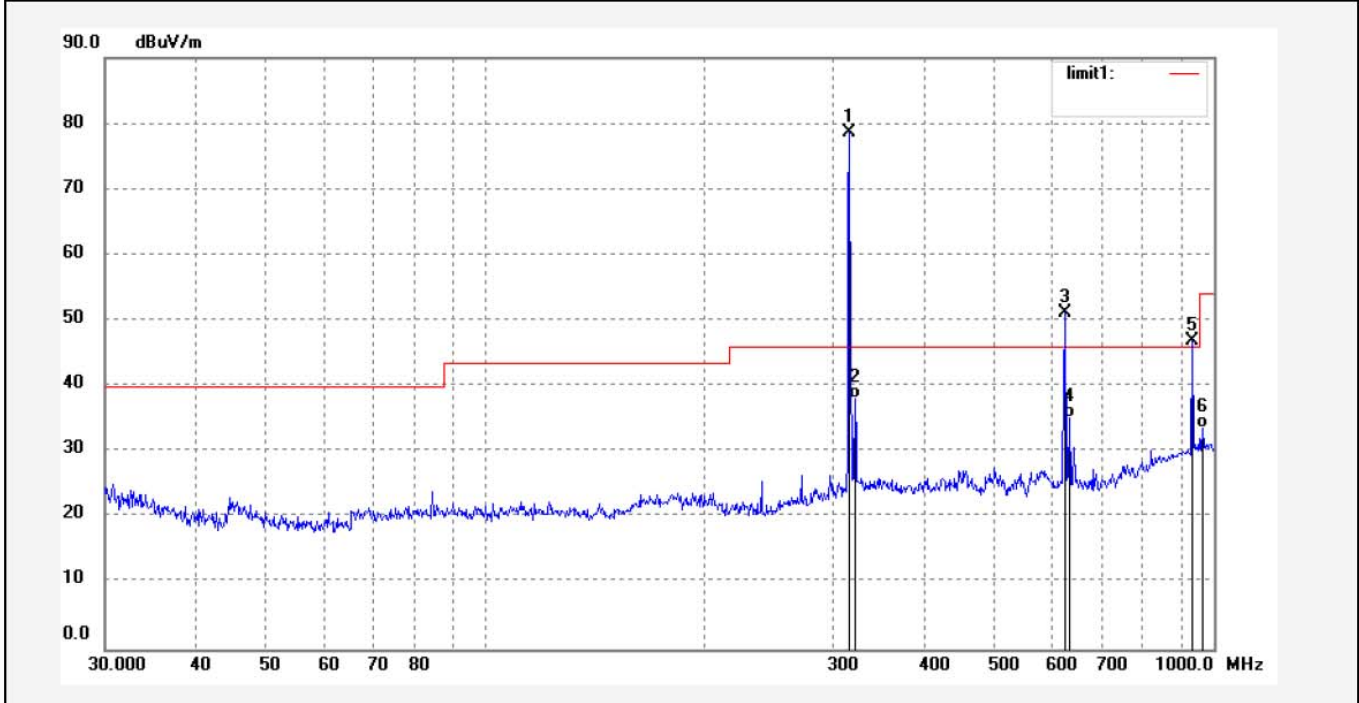
ACCURATE TECHNOLOGY CO., LTD.

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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: frank2017 #1802	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2017/12/13
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16:01:23
EUT: REMOTE CONTROL	Engineer Signature: Frank
Mode: TX 315MHz	Distance: 3m
Model: FAN67T-3SP	
Manufacturer: Carewell Electric Technology (Zhongshan) Co., Ltd	

Note: Report NO.:ATE20172440



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	315.1601	99.45	-20.76	78.69			peak	152	39	
2	321.4581	58.72	-20.56	38.16	46.00	-7.84	QP	100	135	
3	630.2897	64.35	-13.17	51.18			peak	160	271	
4	633.3285	48.21	-13.00	35.21	46.00	-10.79	QP	100	237	
5	945.4214	53.46	-6.57	46.89			peak	173	328	
6	965.4742	39.53	-5.91	33.62	54.00	-20.38	QP	100	247	



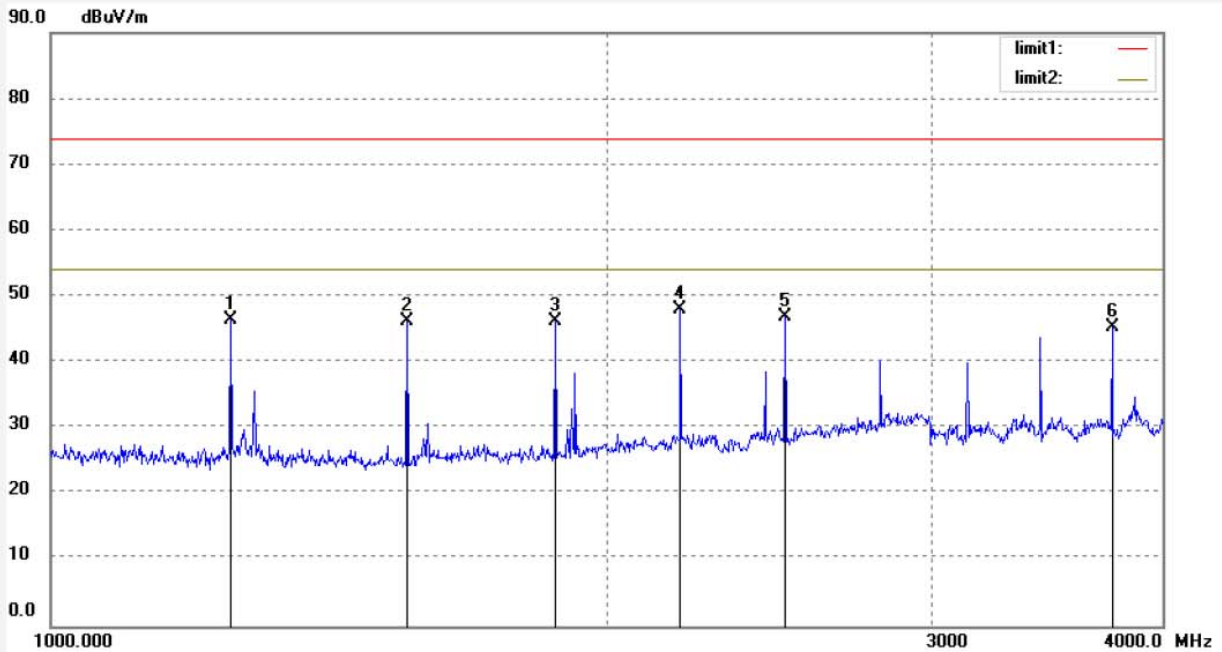
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: frank2017 #1806	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 2017/12/13
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16:07:21
EUT: REMOTE CONTROL	Engineer Signature: Frank
Mode: TX 315MHz	Distance: 3m
Model: FAN67T-3SP	
Manufacturer: Carewell Electric Technology (Zhongshan) Co., Ltd	

Note: Report NO.:ATE20172440



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1260.747	56.95	-10.48	46.47	74.00	-27.53	peak	159	322	
2	1575.330	55.99	-9.86	46.13	74.00	-27.87	peak	156	329	
3	1890.720	54.79	-8.61	46.18	74.00	-27.82	peak	157	68	
4	2205.834	55.36	-7.23	48.13	74.00	-25.87	peak	220	292	
5	2520.006	52.64	-5.81	46.83	74.00	-27.17	peak	200	285	
6	3780.676	46.67	-1.26	45.41	74.00	-28.59	peak	180	290	



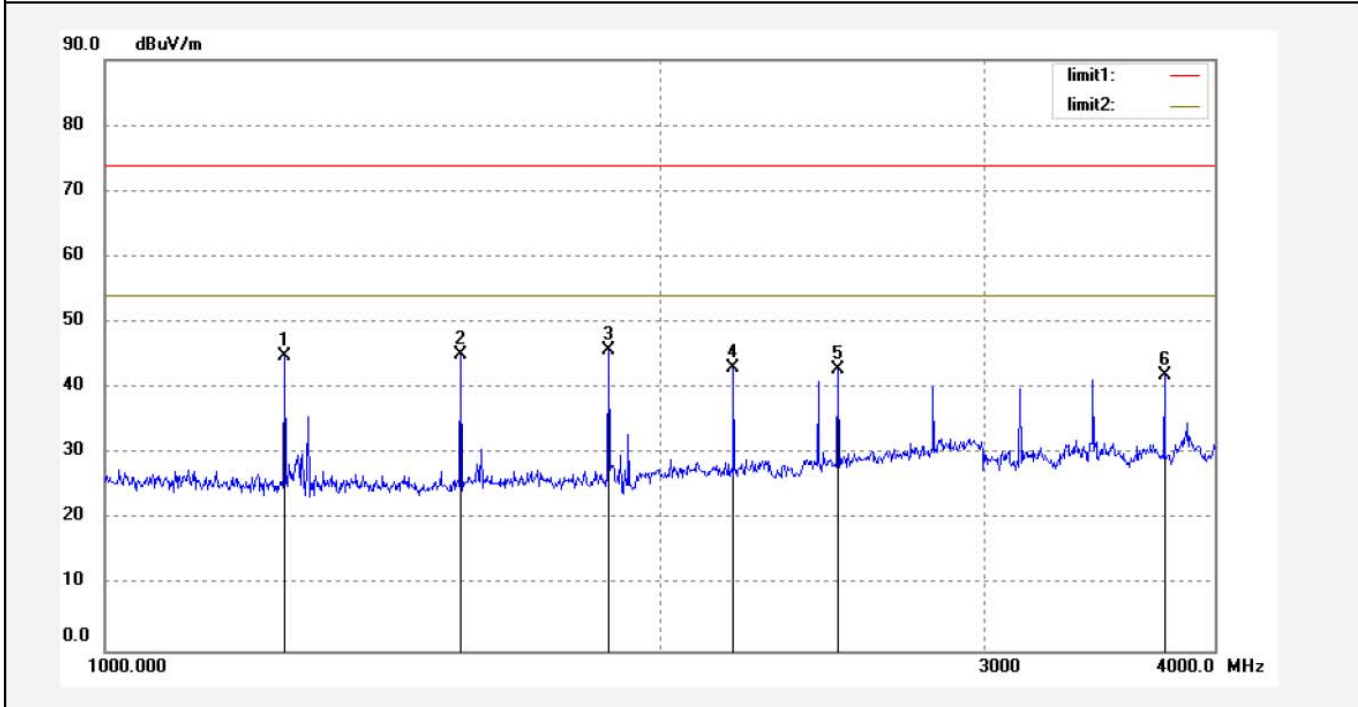
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

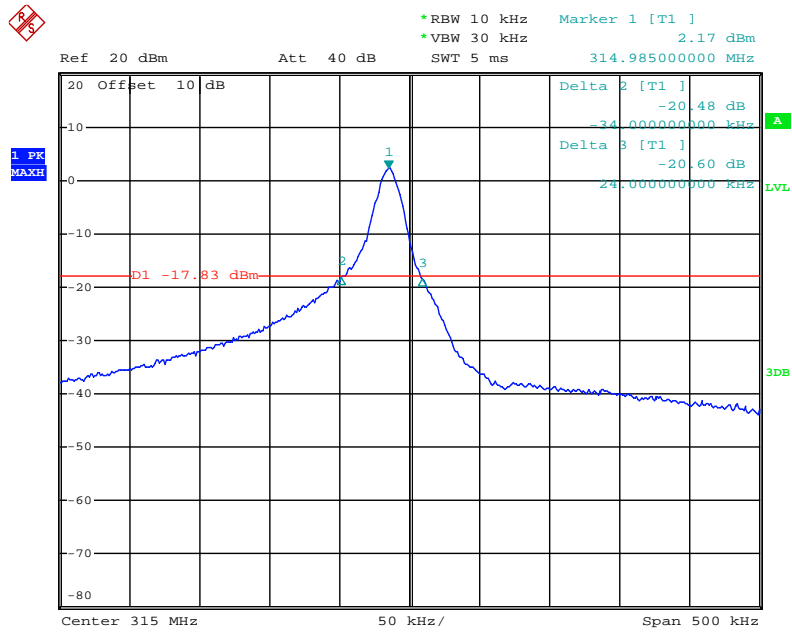
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: frank2017 #1805	Polarization: Vertical
Standard: FCC PK	Power Source: DC 12V
Test item: Radiation Test	Date: 2017/12/13
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16:07:21
EUT: REMOTE CONTROL	Engineer Signature: Frank
Mode: TX 315MHz	Distance: 3m
Model: FAN67T-3SP	
Manufacturer: Carewell Electric Technology (Zhongshan) Co., Ltd	

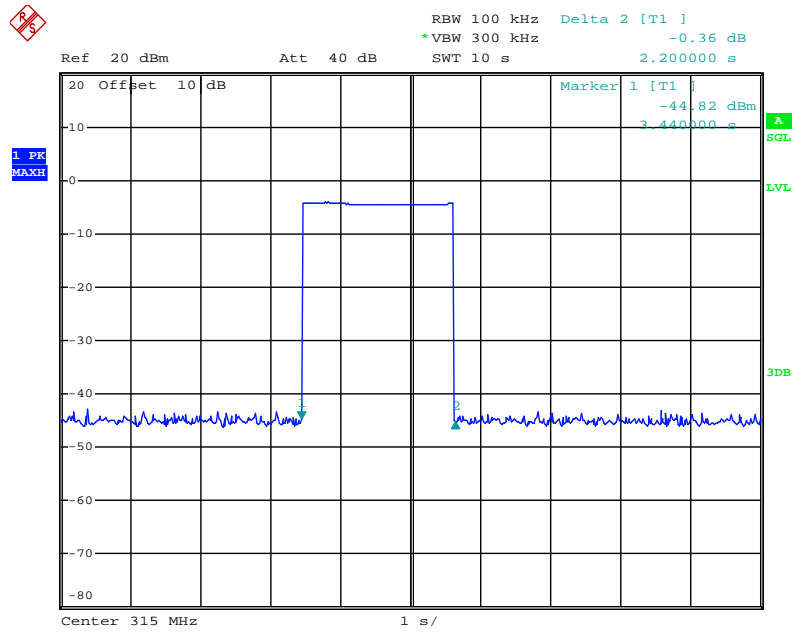
Note: Report NO.:ATE20172440



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1260.747	55.45	-10.48	44.97	74.00	-29.03	peak	160	224	
2	1575.330	54.99	-9.86	45.13	74.00	-28.87	peak	165	328	
3	1890.720	54.29	-8.61	45.68	74.00	-28.32	peak	155	29	
4	2205.834	50.36	-7.23	43.13	74.00	-30.87	peak	160	282	
5	2520.006	48.64	-5.81	42.83	74.00	-31.17	peak	172	339	
6	3780.676	43.17	-1.26	41.91	74.00	-32.09	peak	173	287	



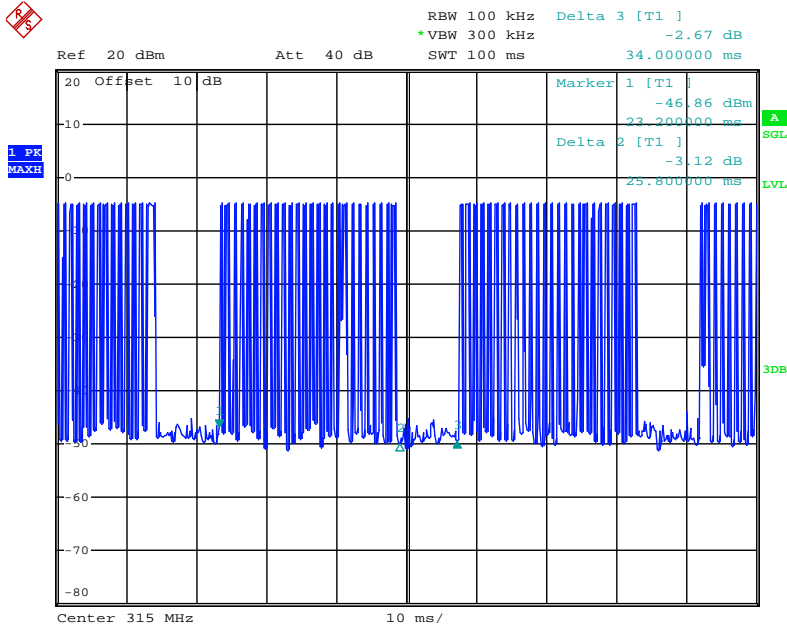
Date: 25.DEC.2017 19:00:35



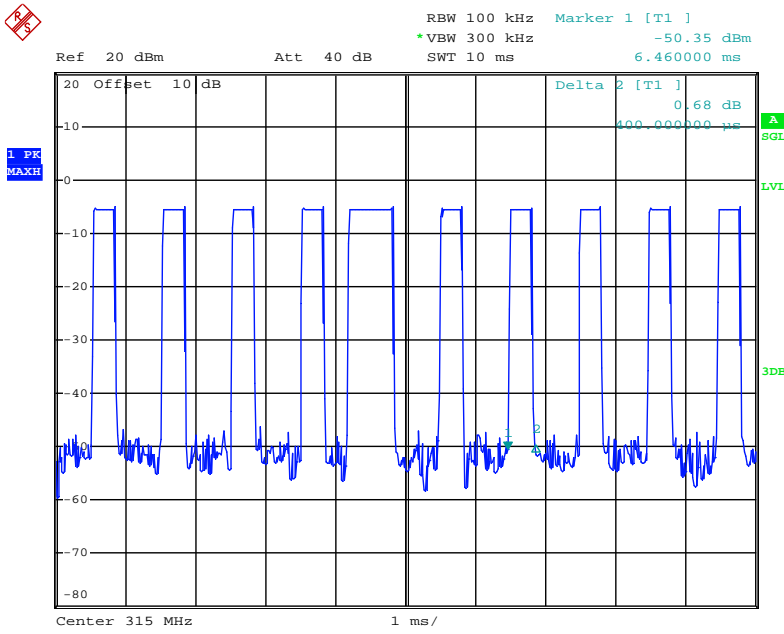
Date: 13.DEC.2017 15:35:38

Release Time = 2.2s

The graph shows the pattern of coding during the signal transmission.
The duration of one cycle = 34.0ms.

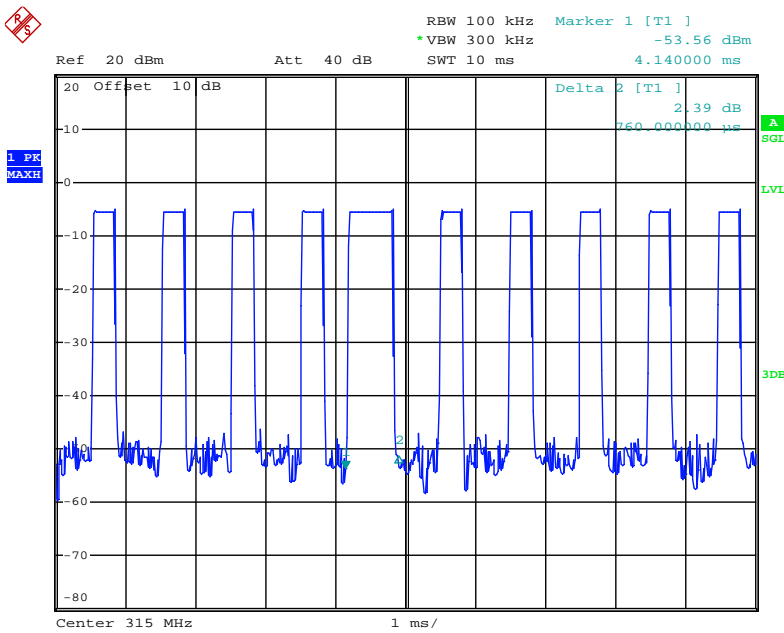


Date: 13.DEC.2017 15:37:56



Date: 13.DEC.2017 15:39:00

The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 0.4ms.



Date: 13.DEC.2017 15:39:28

The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 0.76ms.