

FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

OF

Fan Heater

Model No.: SUNNY CS

Trademark: N/S

FCC ID: WOTSUNNYCS-1

Report No.: ED160317052E

Issue Date: May 17, 2016

Prepared for

**Vornado Air LLC
415 East 13th Street, Andover, KS 67002, USA Andover Kansas United
States**

Prepared by

EMTEK(DONGGUAN) CO., LTD.

**No.281, Guantai Road, Nancheng District,
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EMTEK(DONGGUAN) CO., LTD.**

TEST RESULT CERTIFICATION

Applicant:	Vornado Air LLC 415 East 13th Street, Andover, KS 67002, USA Andover Kansas United States
Manufacturer:	Vornado Air LLC 415 East 13th Street, Andover, KS 67002, USA Andover Kansas United States
Product Description:	Fan Heater
Model Number:	SUNNY CS
Serial Number:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS

We hereby certify that:

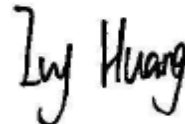
The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.231 Requirements.

The test results of this report relate only to the tested sample identified in this report.

Date of Test :

March 17, 2016 to May 17, 2016

Prepared by :



Ivy Huang/Editor

Reviewer :



Alan He/Supervisor

Approve & Authorized Signer :



Sam Lv/Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	ED160317052E

Table of Contents

1	EUT TECHNICAL DESCRIPTION.....	5
2	SUMMARY OF TEST RESULT.....	6
3	TEST METHODOLOGY	7
3.1	GENERAL DESCRIPTION OF APPLIED STANDARDS.....	7
3.2	MEASUREMENT EQUIPMENT USED	7
3.3	DESCRIPTION OF TEST MODES	8
4	FACILITIES AND ACCREDITATIONS	9
4.1	FACILITIES	9
4.2	LABORATORY ACCREDITATIONS AND LISTINGS	9
5	TEST SYSTEM UNCERTAINTY	10
6	SETUP OF EQUIPMENT UNDER TEST	11
6.1	RADIO FREQUENCY TEST SETUP 1.....	11
6.2	RADIO FREQUENCY TEST SETUP 2.....	11
6.3	CONDUCTED EMISSION TEST SETUP.....	12
6.4	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM.....	13
6.5	SUPPORT EQUIPMENT	13
7	TEST REQUIREMENTS	14
7.1	OCCUPIED BANDWIDTH.....	14
7.2	RADIATED SPURIOUS EMISSION	16
7.3	RELEASE TIME MEASUREMENT	21
7.4	ANTENNA APPLICATION.....	23

1 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Device Type:	Fan Heater
Modulation:	ASK
Operating Frequency Range(s):	315MHz
Number of Channels:	1 channel
Antenna Type :	Internal antenna
Antenna Gain:	0dBi
Power supply:	DC 2*1.5V Battery
Product Hardware Version:	V1.0
Product Software Version:	V1.0
Radio Software Version	V1.0
Radio Hardware version	V1.0

Note: for more details, please refer to the User's manual of the EUT.

2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.231(c)	Occupied Bandwidth	PASS	
15.231(b)	Radiated Spurious Emissions	PASS	
15.231(b)	Transmission Requirement	PASS	
15.203	Antenna Requirement	PASS	
15.207(a)	Conducted Emission	N/A	
NOTE: N/A (Not Applicable) 1. The EUT is supplied by battery, there is no need for AC Power Conducted Emission test to be performed on this product. 2. The EUT used new batteries during all test items.			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: WOTSUNNYCS-1 filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

3.2 MEASUREMENT EQUIPMENT USED

1.1.1. Radiated Emission Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Characteristics	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	9KHz-3GHz	5/16/2016	1 Year
2.	Loop Antenna	Schwarzbeck	FMZB 1519	012	9 KHz -30MHz	5/16/2016	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	000141	25MHz-2GHz	5/16/2016	1 Year
4.	Power Amplifier	CDS	RSU-M352	818	1MHz-1GHz	5/16/2016	1 Year
5.	Power Amplifier	HP	8447F	OPT H64	1GHz-26.5GHz	5/16/2016	1 Year
6.	Color Monitor	SUNSPO	SP-140A	N/A	--	5/16/2016	1 Year
7.	Single Line Filter	JIANLI	XL-3	N/A	--	5/16/2016	1 Year
8.	Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	--	5/16/2016	1 Year
9.	3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	--	5/16/2016	1 Year
10.	DC Power Filter	JIANLI	DL-2X50B	N/A	--	5/16/2016	1 Year
11.	Cable	Schwarzbeck	PLF-100	549489	9KHz-3GHz	5/16/2016	1 Year
12.	Cable	Rosenberger	CIL02	A0783566	9KHz-3GHz	5/16/2016	1 Year
13.	Cable	Rosenberger	RG 233/U	525178	9KHz-3GHz	5/16/2016	1 Year
14.	Signal Analyzer	Rohde & Schwarz	FSV30	103040	9KHz-40GHz	12/29/2015	1 Year
15.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1272	1GHz-18GHz	12/29/2015	1 Year
16.	Power Amplifier	LUNAR EM	LNA1G18-40	J10100000081	1GHz-26.5GHz	12/29/2015	1 Year
17.	Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	12/29/2015	1 Year
18.	Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	12/29/2015	1 Year
19.	Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	12/29/2015	1 Year

1.1.2. Radio Frequency Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Characteristics	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Rohde & Schwarz	FSV30	1321.3008K	10Hz-30GHz	5/16/2016	1 Year
2	Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	5/16/2016	1 Year
3	Antenna Connector	ARTHUR-YANG	2244-N1TG1	N/A	10Hz-30GHz	5/16/2016	1 Year

Remark: Each piece of equipment is scheduled for calibration once a year.

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

The EUT has been associated with peripherals pursuant to ANSI C63.10-2013 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

For Radiated: The EUT's antenna was pre-tested under the following modes:

Test Mode	Description
Mode A	X-Y axis
Mode B	Y-Z axis
Mode C	X-Z axis

From the above modes, the worst case was found in Mode A. Therefore only the test data of the mode was recorded in this report.

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Registered on FCC, June 18, 2014
The Certificate Number is 247565.

Registered on Industry Canada, February 19, 2014
The Certificate Number is 9444A

Name of Firm : EMTEK(DONGGUAN) CO., LTD.

Site Location : No.281, Guantai Road, Nancheng District,
Dongguan, Guangdong, China

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

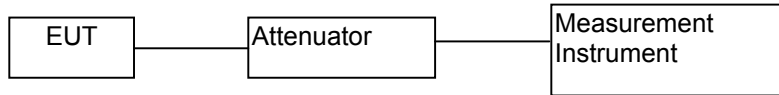
Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%

6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth.

Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

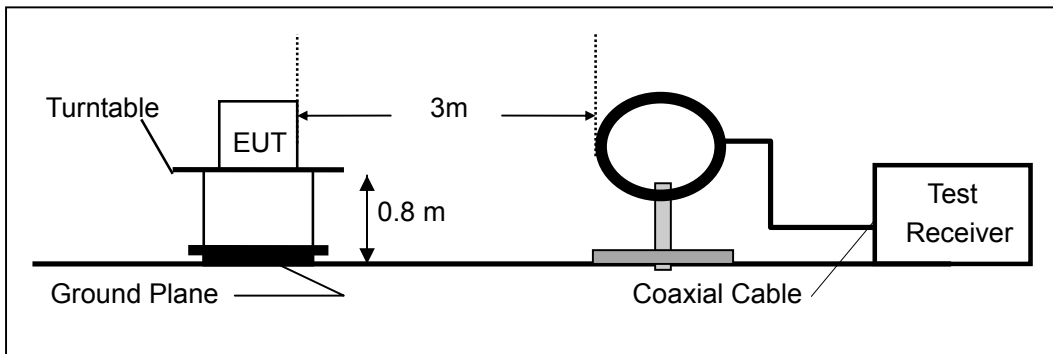
Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

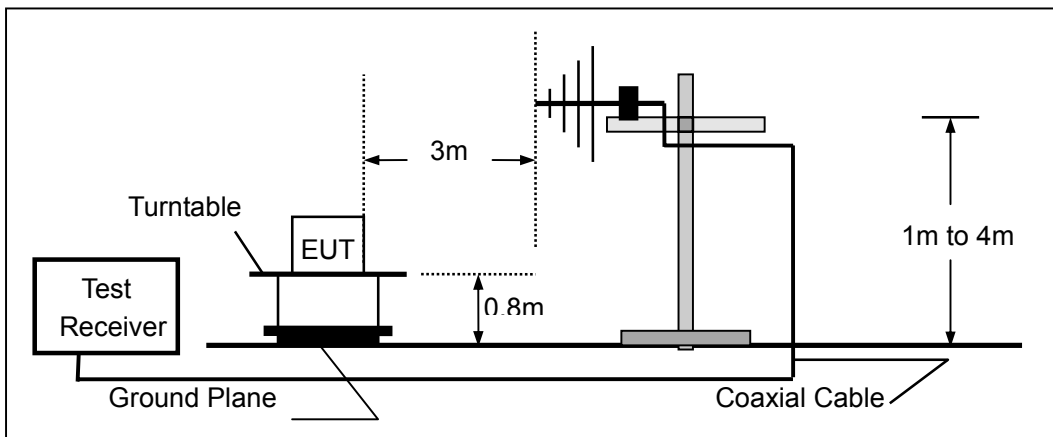
Above 30MHz:

Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a Styrofoam table which is 1.5m above ground plane. The EUT was set 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

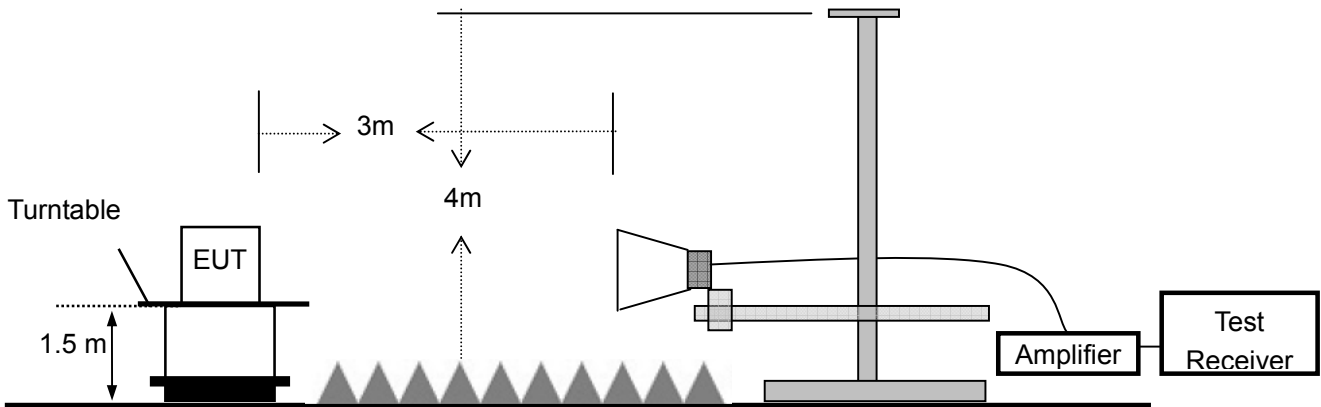
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz

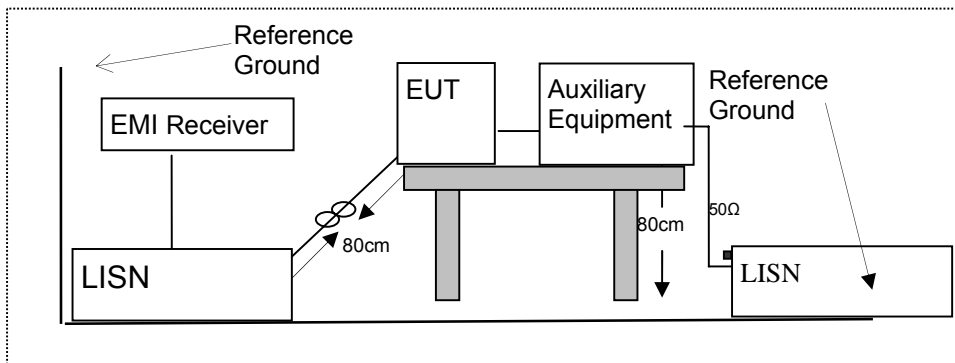


6.3 CONDUCTED EMISSION TEST SETUP

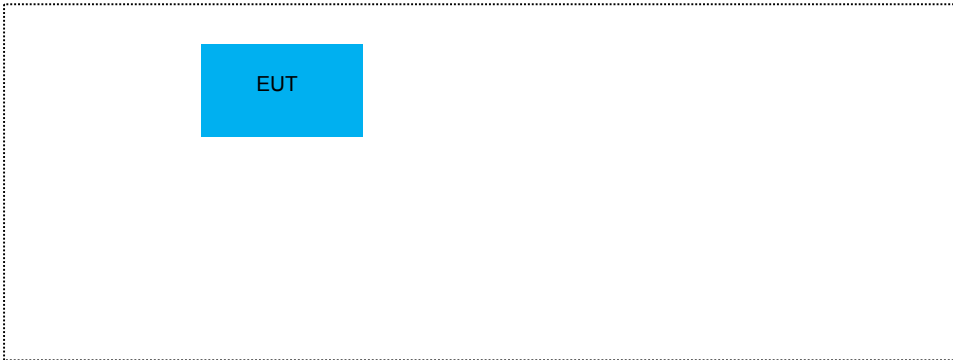
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	N/A				

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7 TEST REQUIREMENTS

7.1 OCCUPIED BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 2.1049 and part 15.231(c)

7.1.2 Conformance Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth (300Hz).

Set the video bandwidth (VBW) =1KHz.

Set Span= approximately 2 to 3 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 99% down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 99% bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

Test Results

Temperature : 28°C Test Date : March 25, 2016
Humidity : 65 % Test By: Andy

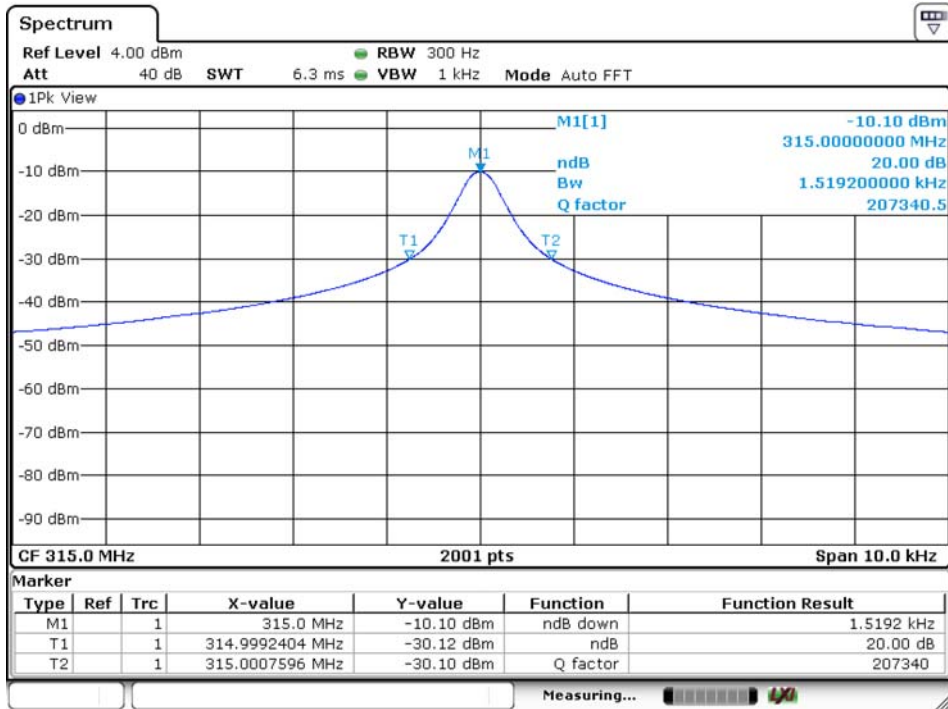
Modulation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (kHz)	Limit (kHz)	Verdict
ASK	0	315	1.52	≤787.5KHz	PASS

Note:

BW=0.25% of the center frequency

The bandwidth limit is $315 \times 0.0025 = 787.5\text{KHz}$

Test Model 20dB Bandwidth Channel 0: 315MHz ASK Modulation



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.231(b) and 15.209

7.2.2 Conformance Limit

Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:

FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

FCC 15.209 Limited

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3
Above 1GHz	74 dBuV/m (PEAK) 54 dBuV/m (AVERAGE)	

15.231e Limited

Funda- mental fre- quency (MHz)	Field strength of fun- damental (microvolts/ meter)	Field strength of spu- rious emission (microvolts/meter)
40.66– 40.70.	1,000	100
70–130	500	50
130–174	500 to 1,500 ¹	50 to 150 ¹
174–260	1,500	150
260–470	1,500 to 5,000 ¹	150 to 500 ¹
Above 470	5,000	500

¹ Linear interpolations.

The field intensity in micro-volts per meter can then be determined by the following equation: $FI(V/m) = 10FI$ (dBV/ m) / 20 The FCC specified emission limits were calculated according the EUT operating frequency and obtained by following linear interpolation equations:

(a) For fundamental frequency:

$$fEUT : \text{EUT Operating Frequency Emission Limit (V/m)}$$

$$= [fEUT(\text{MHz}) - 260(\text{MHz})] \times \frac{5000(\text{V/m}) - 1500(\text{V/m})}{470(\text{MHz}) - 260(\text{MHz})} + 1500(\text{V/m})$$

(b) For spurious frequencies:

$$fEUT : \text{EUT Operating Frequency Emission Limit (V/m)}$$

$$= [fEUT(\text{MHz}) - 260(\text{MHz})] \times \frac{500(\text{V/m}) - 150(\text{V/m})}{470(\text{MHz}) - 260(\text{MHz})} + 150(\text{V/m})$$

Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 1 5.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

FCC Part15 (15.231e) , Subpart C		
Fundamental Frequency	Field Strength Of Fundamental	Field Strength of Spurious Emissions
315MHz	AV:67.66 dBuV/m at 3m distance	AV:47.66 dBuV/m at 3m distance
	PK:87.66dBuV/m at 3m distance	PK:67.66 dBuV/m at 3m distance

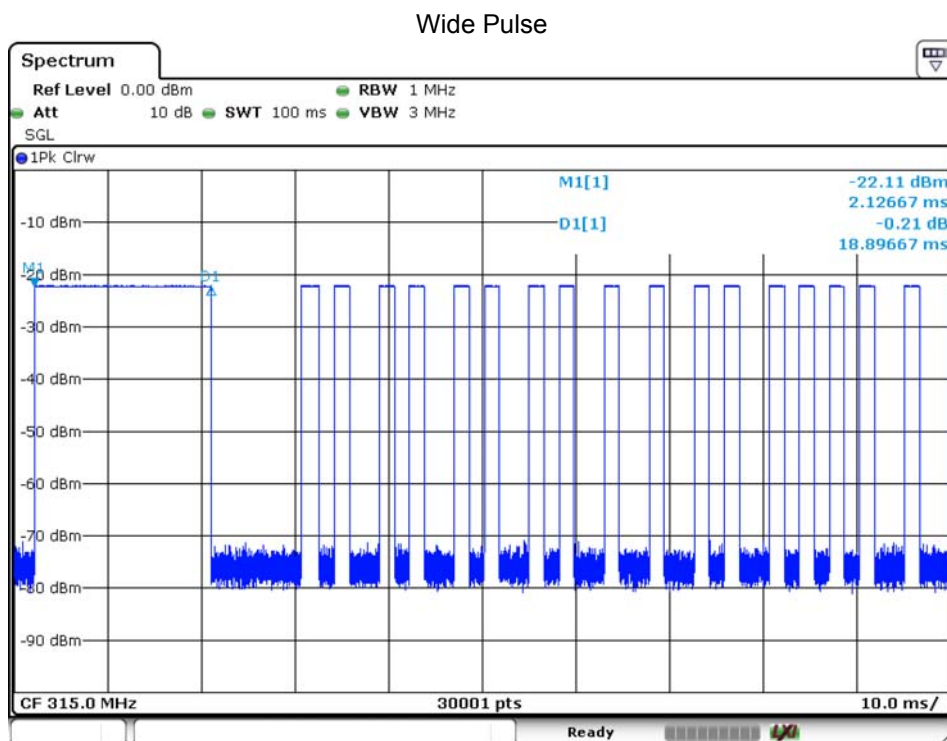
Calculation of Average factor

because the time of one cycle is over 100ms, So the average correction factor is computed by analyzing the on time in 100ms over one complete pulse train. Analysis of the remote transmitter on time in one complete pulse train, therefore the average value of fundamental frequency is: Average= Peak Value+20log(Duty Cycle), where the duty factor is calculated from following formula:

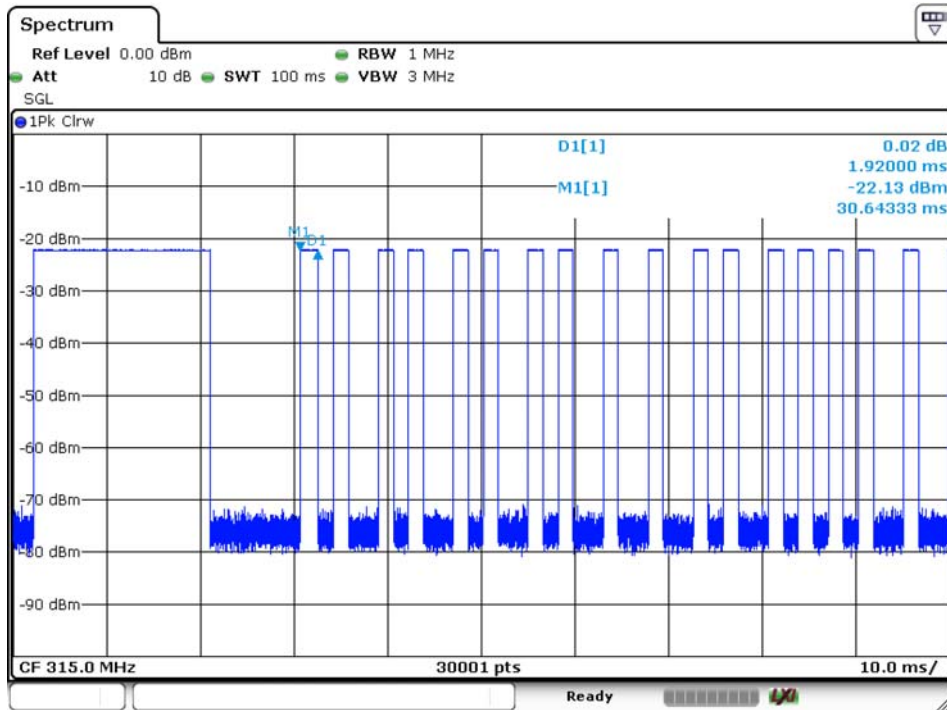
The duty cycle is simply the on-time divided by the period:
 The duration of one cycle is in 100ms=18.9*1+1.92*17=51.54ms
 Duty Cycle=51.54/100=0.5154
 Therefore, the averaging factor is found by 20log(0.5154)=-5.76dB

Pulse Width(PW)=1.92ms
 2/PW=2/1.92=1.072KHz
 RBW>2/PW(1.072KHz)
 Therefore PDCF is no needed.

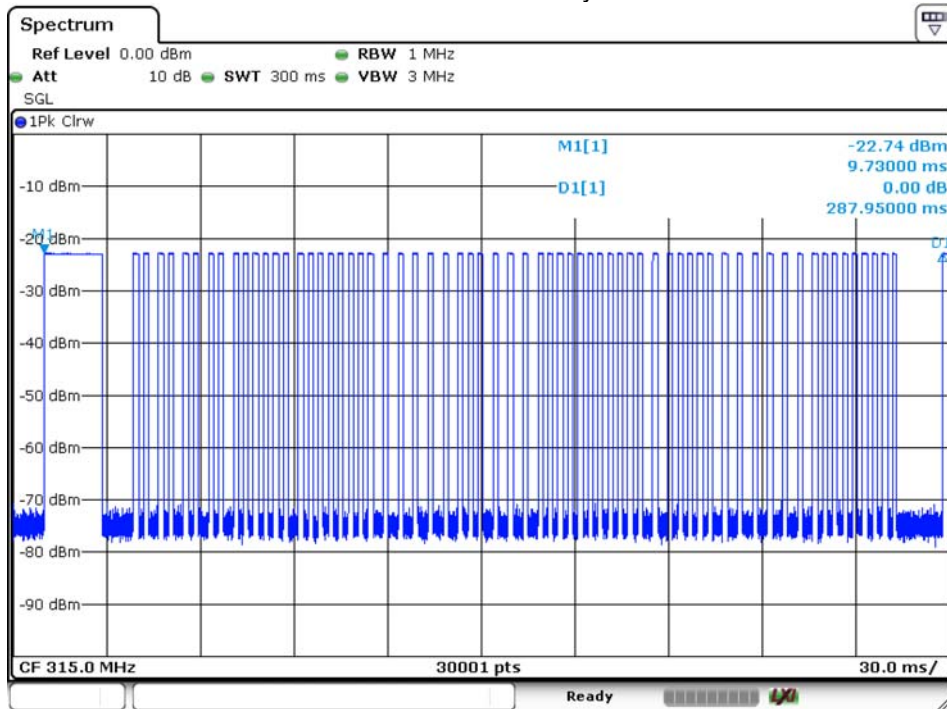
Please see the test plot below:



Narrow Pulse



the duration of One Cycle



7.2.3 Measurement Result

Modulation:	ASK	Test Date :	March 25, 2016
Frequency Range:	30MHz-5GHz	Temperature :	25 °C
Test Result:	PASS	Humidity :	50 %
Measured Distance:	3m	Test By:	Andy

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
315(F)	V	65.34	59.58	87.66	67.66	-22.32	-8.08
630	V	45.15	39.39	67.66	47.66	-22.51	-8.27
945	V	44.15	38.39	67.66	47.66	-23.51	-9.27
1260	V	43.01	37.25	67.66	47.66	-24.65	-10.41
1575	V	40.26	34.50	67.66	47.66	-27.4	-13.16
1890	V	38.72	32.96	67.66	47.66	-28.94	-14.70
2205	V	37.46	31.70	67.66	47.66	-30.2	-15.96
315(F)	H	64.19	58.43	87.66	67.66	-23.47	-9.23
630	H	44.08	38.32	67.66	47.66	-23.58	-9.34
945	H	43.16	37.40	67.66	47.66	-24.5	-10.26
1260	H	42.07	36.31	67.66	47.66	-25.59	-11.35
1575	H	41.27	35.51	67.66	47.66	-26.39	-12.15
1890	H	40.98	35.22	67.66	47.66	-26.68	-12.44
2205	H	37.25	31.49	67.66	47.66	-30.41	-16.17

Note : 1. Measurement receive antenna polarization: H (Horizontal), V (Vertical)
 2. If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle), Duty Cycle=51.54/100=0.5154, 20log(0.5154)=-5.76dB

7.3 RELEASE TIME MEASUREMENT

7.3.1 Applicable Standard

15.231 (e)

devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

7.3.2 Conformance Limit

each transmission is not greater than 1 sec and the silent period between transmissions is at least 30 times the duration of the transmission but in no case less than 10 sec.

7.3.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

7.3.4 Test Procedure

The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	0Hz
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold
Sweep Time	100S

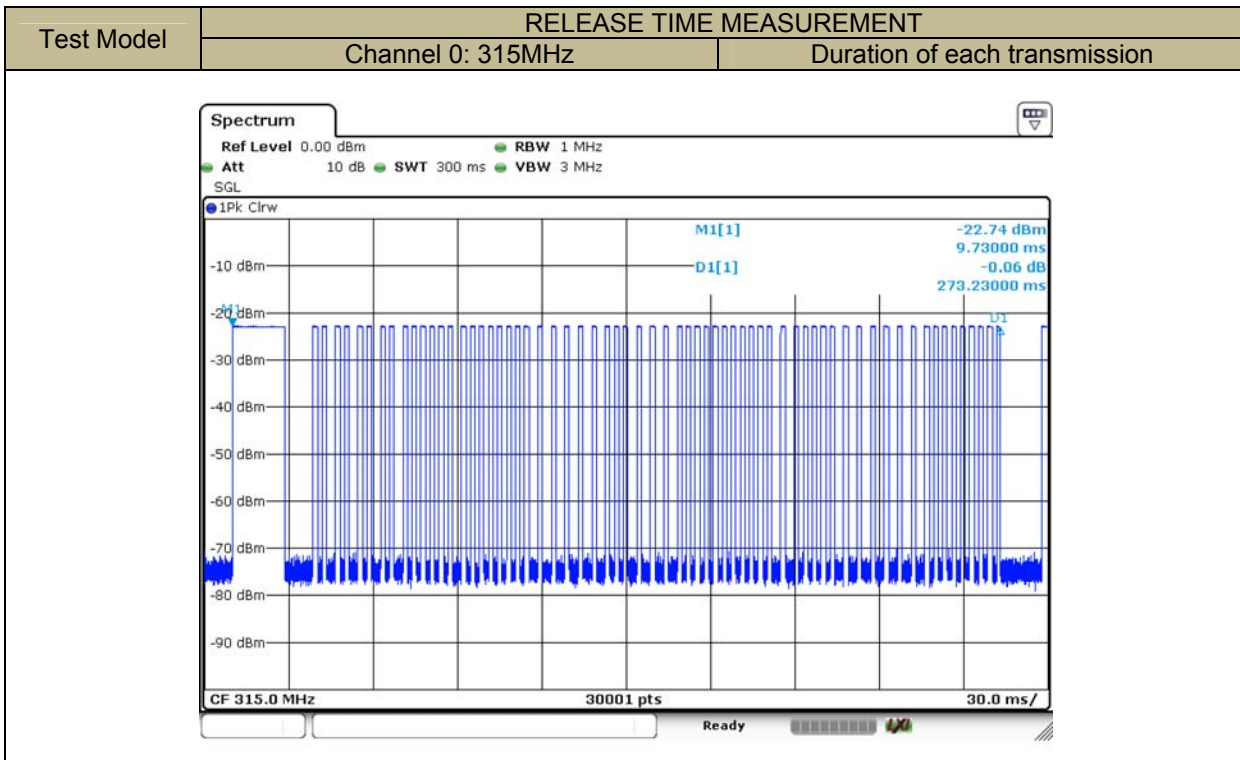
- Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz, Set Detector to Peak, Trace to Max Hold.
- Set the span to 0Hz and the sweep time to 100s and record the value.

7.3.5 Test Results

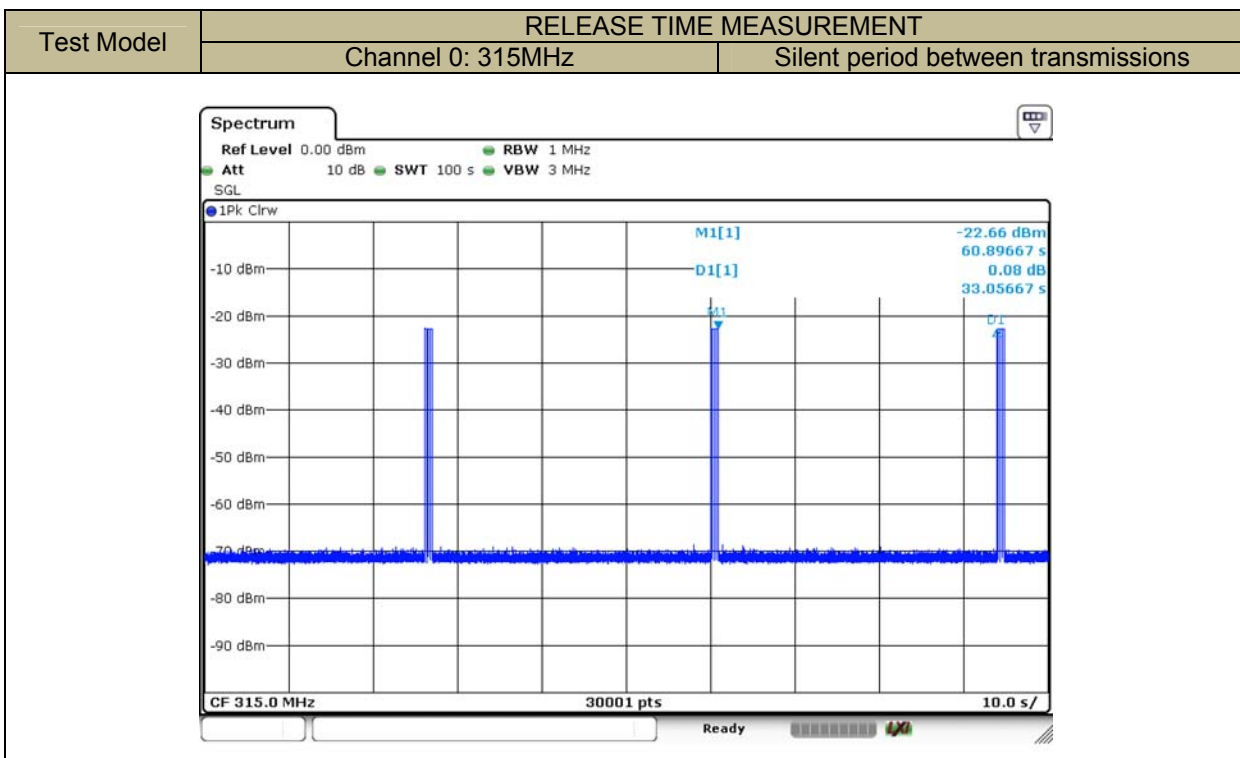
Temperature:	24°C	Test Date:	March 25, 2016
Humidity:	53 %	Test By:	Andy
Test mode:	TX Mode		

Item	Duration of each transmission	Silent period between transmissions
Time	273.23ms	33.06s
Limit	≤ 1s	≥ 10s and 30*(Duration of each transmission)
Verdict	PASS	PASS

Duration of each transmission:



Silent period between transmissions:



7.4 Antenna Application

7.4.1 Antenna Requirement

For intentional device, according to FCC 47 CFR 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.

7.4.2 Result

The EUT's antenna is internal antenna, using a permanently attached antenna which is not replaceable. The antenna's gain is 0dBi and meets the requirement.

APPENDIX I (Photos of EUT)

