

FCC COMPLIANCE TEST REPORT

Technical Statement of Conformity in accordance with 47 CFR Part 15 Subpart C

The product

Equipment Under Test	: Transmitter
Model Number	: TP36RF315
Product Series	: N/A
Report Number	: HA141017-RA
Issue Date	:28-JAN-2015
Test Result	: Compliance

is produced by FEGO Precision Industrial Co., Ltd 947 Lin-Sen Rd. Wu-Fong Tai-Chung 413 Taiwan ROC.

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SL2-IS-E-0023, SL2-R1-E-0023, **TAF Accreditation No.:** 1163 SL2-R2-E-0023, SL2-L1-E-0023 **VCCI Registration No.** R-2156, C-2329, T-219, G-696 (and

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Test Result Certification

Applicant	FEGO Precision Industrial Co., Ltd		
Address of Applicant	: 947 Lin-Sen Rd. Wu-Fong Tai-Chung 413 Taiwan ROC.		
Manufacturer	FEGO Precision Industrial Co., Ltd		
Address of Manufacturer	: 947 Lin-Sen Rd. Wu-Fong Tai-Chung 413 Taiwan ROC.		
Trade Name	: N/A		
Equipment Under Test	: Transmitter		
Model Number	: TP36RF315		
Product Series	: N/A		
FCC ID	: M8CTP36RF315		
Filing Type	: Certification		
Sample Received Date	: 17-DEC-2014		
Test Standard	:		

FCC Part 15 Subpart C §15.231

Deviations from standard test methods & any other specifications : NONE

Remark:

- 1. This report details the results of the test carried out on one sample.
- The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.203, 15.207, 15.209, 15.231.
- 3. This report applies to the above sample only and shall not be reproduced in part without written approval of HongAn Technology Co., Ltd.

Joe Chen.

Documented by:

Zoe Chen/ ADM. Dept Staff Ben Chen Tested by: 2015-01-28 Date: Ben Chen / ENG. Dept. Staff Adam Jang Approved by: Date: 2015-01-28 Adam Yang / SEC. Manager

2015-01-28

Date:

	Test Item	Applicable Standard	Test Result
1	Antenna Requirement	FCC part 15 subpart C §203	Compliance
2	Conducted Limits	FCC part 15 subpart C §207	N/A
3	Radiated Emission Limits	FCC part 15 subpart C §209	Compliance
	Conditions of Intentional		
4	Radiators to Comply with	FCC part 15 subpart C §231(a)	Compliance
	Periodic Operation		
5	Field Strength	FCC part 15 subpart C §231(b)	Compliance
6	Emission Bandwidth	FCC part 15 subpart C §231(c)	Compliance
	Requirements for		
7	Devices Operating within	FCC part 15 subpart C §231(d)	N/A
	40.66~40.70MHz Band		
	Conditions for Intentional		
8	Radiators to Comply with	FCC part 15 subpart C §231(e)	N/A
	Periodic Operation		

Summary of Test Result

HongAn TECHNOLOGY CO., LTD. 1

1.1 Description of EUT

Equipment Under Test	:	Transmitter
Model Number of EUT	:	TP36RF315
Product Series	:	N/A
Power Supply	:	DC 3 V (AAA Battery * 2pcs)
Frequency Range	:	315.05 MHz
Number of Channels	:	1
Channel Spacing	:	N/A
Antenna Specification	:	PCB Antenna, 0 dBi Gain
Modulation Technique	:	ASK
Specification	:	Dimensions : 9 cm (L) X 5.5 cm (W) X 2.5 cm (H) Function : The EUT is a Transmitter. Its transmitting frequency is 315.05MHz ※For more detail specification, please refer to the User Manual.



1.2 Test Instruments

1.2.1 Instruments Used for Measurement

Instrument Name	Manufacture	Model Number	Serial Number	Last Cal. Date	Next Cal. Date
LISN	EMCO	3810/2NM	9702-1821	18-Aug-2014	18-Aug-2015
LISN	Rolf Heine Hochfrequenz technik	NNB-4/32T	00001	24-Feb-2014	24-Feb-2015
EMI Receiver	R&S	ESCI	100931	17-Jul-2014	17-Jul-2015
Spectrum Analyzer	R&S	FSL6	100323	05-Sep-2014	05-Sep-2015
Spectrum Analyzer	Advantest	R3172	101202158	08-Aug-2014	08-Aug-2015
Spectrum Analyzer	R&S	FSV30	101629	30-Jul-2014	30-Jul-2015
Preamplifier	CHASE	CPA 9231A	0405	22-Aug-2014	22-Aug-2015
Preamplifier	HD	HD17187	004	26-May-2014	26-May-2015
Micorwave Preamplifier	Com-Power	PAM-840	461269	02-Jul-2014	02-Jul-2015
Bilog Antenna	TESEQ	CBL6111D	25769	11-Mar-2014	11-Mar-2015
Double-Ridged Waveguide Horn	EMCO	3115	9912-5992	22-May-2014	22-May-2015
Horn Antenna	Com-Power	AH-840	101042	03-Jul-2014	03-Jul-2015
Temp. & Humidity Chamber	Giant Force	GTH-150-20-SP -AR	MMA0907-012	09-Jun-2014	09-Jun-2015

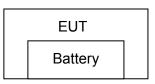
% The test equipments used are calibrated and can be traced to National ITRI and International Standards.

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1.3 Auxiliary Equipments

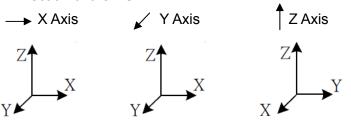
- 1.3.1 Provided by HongAn Technology Co., Ltd. For Emission Test. N/A
- 1.3.2 Provided by the Manufacturer N/A

1.4 EUT SETUP



Note: 1. Main Test Sample: TP36RF315

2. Direction of the EUT



1.5 Identifying the Final Test Mode

- 1. Mode 1: EUT in X Position. Transmitting Channel set at 315.05 MHz.
- 2. Mode 2: EUT in Y Position. Transmitting Channel set at 315.05 MHz.

3. Mode 3: EUT in Z Position. Transmitting Channel set at 315.05 MHz. Note:

- 1. New battery was used for all testing.
- 2. The Final Assessment was performed for the worst case.
- According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.207, 15.209 and 15.231 under the FCC Rules Part 15 Subpart C.

1.6 Final Test Mode

- 1. Radiated Emission (30~960MHz): Mode 1, 2, 3. Mode 2 is the worst case.
- 2. Field Strength (Fundamental & Harmonics): Mode 1, 2, 3. Mode 2 is the worst case.
- 3. Conducted Emission: N/A. The EUT is designed to use AAA Battery * 2pcs.

1.7 Condition of Power Supply

DC 3 V (AAA Battery * 2pcs)

1.8 EUT Configuration

- 1. Setup the EUT as shown in Sec.1.4 Block Diagram.
- 2. Turn on the power of all equipments.
- 3. Activate the selected Final Test Mode.

1.9 Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.203, 15.207, 15.209 and 15.231.

1.10 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.3 of ANSI C63.4 (2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. The EUT was designed to be mounted on back of vehicle seat, according to the requirements in Section 13.4 of ANSI C63.4 (2003), only one axe of the EUT has to be measured.

1.11 Modification

N/A

2 **Power line Conducted Emission Measurement**

2.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

2.2 Test Arrangement and Procedure

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

2.3 Limit

15.207(a) The final test data are shown on the following tables and refer to the following page(s) for the graphs. Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Fraguanay (MHz)	Limits (dBuV)		
Frequency (MHz)	Q.P. (Quasi-Peak) A.V. (Av		
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5.0	56	46	
5.0 to 30	60	50	

15.247(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

15.274(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

2.4 Test Result

N/A

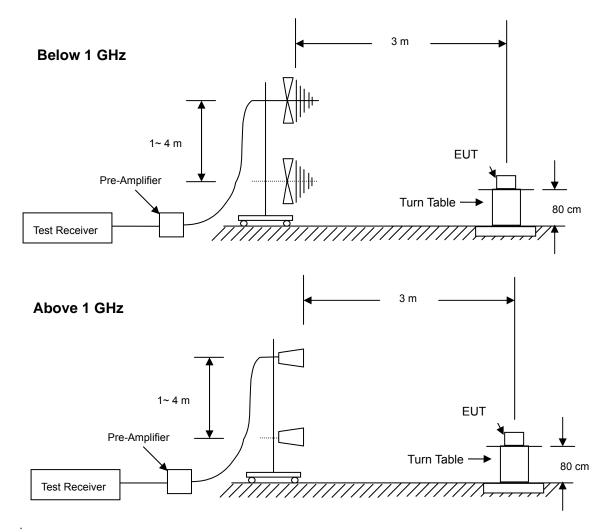
The EUT applied AAA Battery x 2pcs and has no connection to PC link ; therefore, no conducted emission measurement is required.

3 Radiated Emission Test

3.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

3.2 Test Arrangement and Procedure



- 1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
- 4. Maxium procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:
 - (a) Below 1 GHz: RBW =100 kHz/ VBW = 300 kHz/ Sweep = AUTO.
 - (b) Above 1 GHz: Peak: RBW = VBW = 1MHz/ Sweep = AUTO.
- 7. Repeat above procedures until the meausreemnts for all frequencies are complete.

3.3 Limit (§ 15.205 & § 15.231(b))

3.3.1 Limit of Restricted Band of Operation (§ 15.205)

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Frequency Band				
MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
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		
13.36-13.41				

3.3.2 Limit of Field Strength of Fundamental (§ 15.231(b))

The field strength of emissions from intentional radiators operated under these frequency bands shall not exceed with the following:

Fundamental Frequency	Field strength of fundamental	Field strength of spurious
		emission
(MHz)	(microvolts/ meter)	(microvolts/ meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

Remark: 1. Linear interpolations.

The transmitting frequency of the EUT is from 314MHz to 316MHz. According to Linear interpolations, the limits for fundamental and spurious are in the following table:

Transmitting Frequency	Field strength of fundamental		Field strength of spurious emission		
(MHz)	(microvolts/	dBuV/m	(microvolts/	dBuV/m	
	meter)		meter)		
314-316	6000-6083.33	75.56-75.68	600-608.33	55.56-55.68	

Note:

- 1. Field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.
- 2. Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in § 15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of § 15.205 shall be demonstrated using the measurement instrumentation specified in that section.
- 3. The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength.

3.3.3 Limit of Spurious Emission (§ 15.209)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is lesser attenuation.

Frequency	Field strength	Measurement distance
(MHz)	(microvolts/ meter)	(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
Above 960	500	3

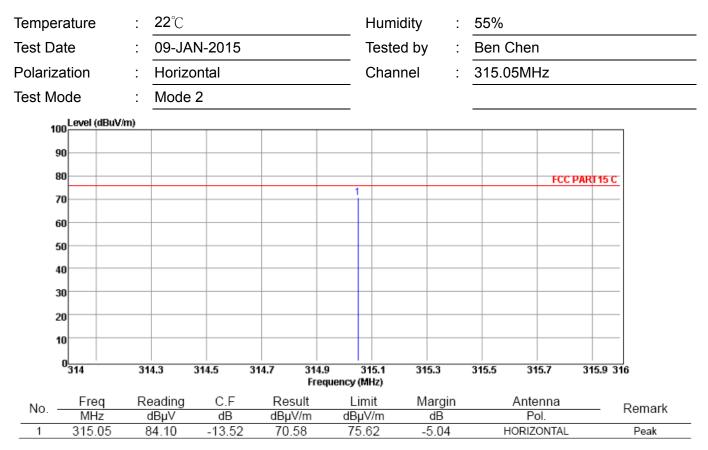
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g.§§ 15.231 and 15.241.

3.4 Test Result

Compliance

The final test data are shown on the following page(s).

Radiated Emission Test Data (Field Strength of Fundamental)

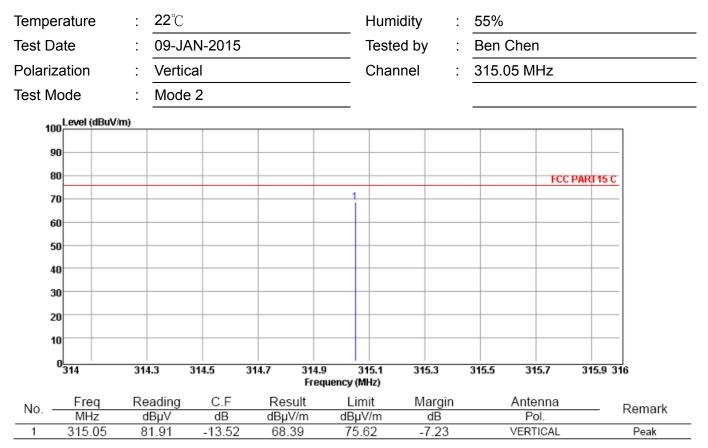


Remark :

2. Spectrum setting: Peak Setting, RBW = 100kHz, VBW = 300kHz

^{1.} All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.

Radiated Emission Test Data (Field Strength of Fundamental)

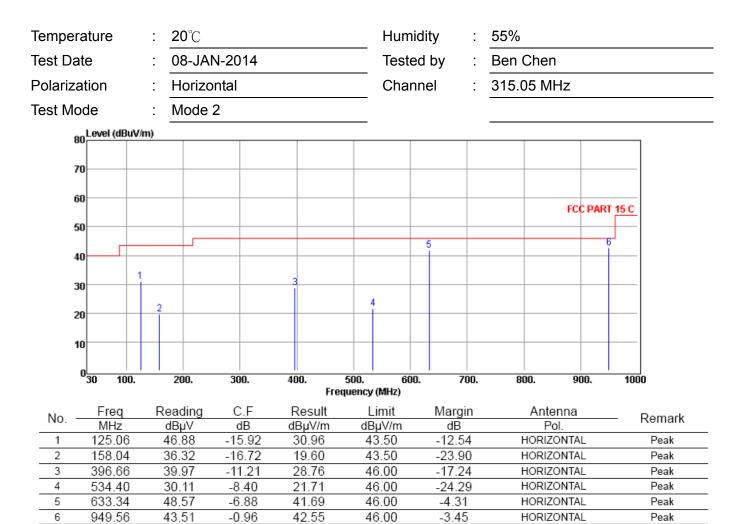


Remark :

2. Spectrum setting: Peak Setting. RBW = 100kHz, VBW = 300kHz

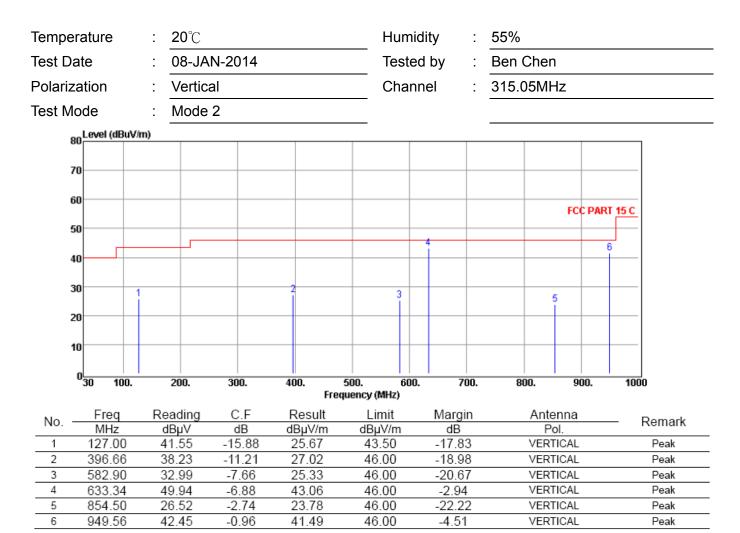
^{1.} All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.

Radiated Emission Test Data (Below 1 GHz)



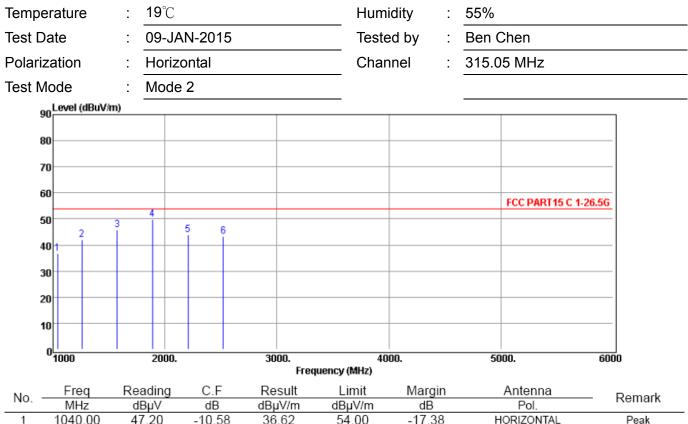
- 1. Measuring frequencies from 30 MHz to 1 GHz.
- 2. Measurements above show only up to 6 maximum emissions noted.
- Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode. All reported emission levels reading were lower than QP limits. Therefore it is deemed to in compliance with the requirements without further QP data measurement.
- Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 5. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

Radiated Emission Test Data (Below 1 GHz)



- 1. Measuring frequencies from 30 MHz to 1 GHz.
- 2. Measurements above show only up to 6 maximum emissions noted.
- Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode. All reported emission levels reading were lower than QP limits. Therefore it is deemed to in compliance with the requirements without further QP data measurement.
- Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 5. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

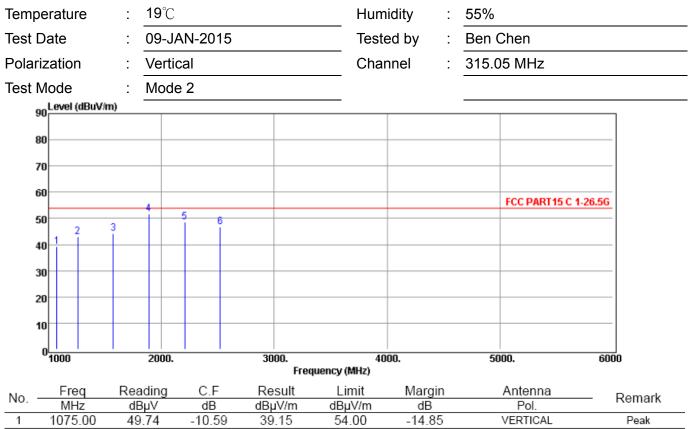
Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)



INO.	MHz	dBµV	dB	dBµV/m	dBµV/m	dB	Pol.	Reliaik
1	1040.00	47.20	-10.58	36.62	54.00	-17.38	HORIZONTAL	Peak
2	1260.00	52.71	-10.75	41.96	54.00	-12.04	HORIZONTAL	Peak
3	1575.00	56.42	-10.53	45.89	54.00	-8.11	HORIZONTAL	Peak
4	1890.00	58.76	-9.02	49.74	54.00	-4.26	HORIZONTAL	Peak
5	2205.00	51.59	-7.74	43.85	54.00	-10.15	HORIZONTAL	Peak
6	2520.00	50.05	-6.66	43.39	54.00	-10.61	HORIZONTAL	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- 5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10^{th} harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)



NO.	MHz	dBµV	dB	dBµV/m	dBµV/m	dB	Pol.	Koman
1	1075.00	49.74	-10.59	39.15	54.00	-14.85	VERTICAL	Peak
2	1260.00	53.82	-10.75	43.07	54.00	-10.93	VERTICAL	Peak
3	1575.00	54.90	-10.53	44.37	54.00	-9.63	VERTICAL	Peak
4	1890.00	60.59	-9.02	51.57	54.00	-2.43	VERTICAL	Peak
5	2205.00	56.34	-7.74	48.60	54.00	-5.40	VERTICAL	Peak
6	2520.00	53.26	-6.66	46.60	54.00	-7.40	VERTICAL	Peak

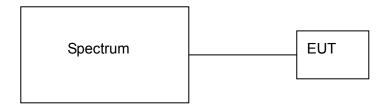
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- 5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10^{th} harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

4 Conditions for intentional radiators to comply with periodic operation

4.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

4.2 Test Arrangement and Procedure



- 1. The transmitter output was connected to the spectrum analyzer (through an attenuator, if it's necessary).
- 2. The transmitting duration time was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW. Swept time set at 10 seconds.
- 3. The EUT is a manually operated transmitter which employs a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- 4. Push down the manual switch. Then, release the manual switch to see if the transmitter deactivate within not more than 5 seconds.

4.3 Limit (§ 15.231(a))

The provisions of this section are restricted to periodic operation within the band 40.66-40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted. Data is permitted to be sent with a control signal. The following conditions shall be met to comply with the provisions for this periodic operation:

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

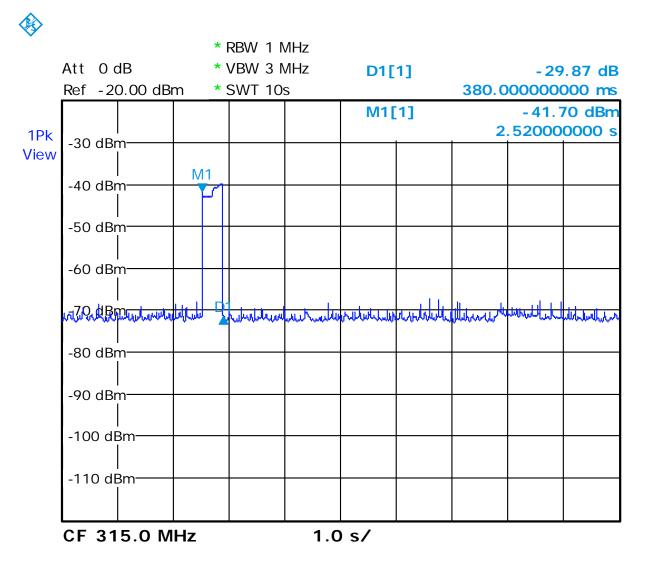
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.
- (5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

4.4 Test Result

Compliance

The final test data are shown on the following page(s).

HongAn TE	CHNC	Report No.: HA141017-RA			
Temperature	:	19 ℃	Humidity	:	55%
Test Date	:	09-JAN-2015	Tested by	:	Ben Chen
Test Mode	:	N/A	Channel	:	315.05 MHz



Date: 15.JAN.2015 19:16:23

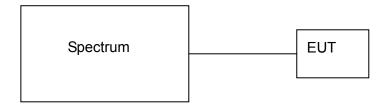
Duration of being released (sec)	Limit of duration (sec)	Result
0.38	5	Pass

5 Emission Bandwidth

5.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

5.2 Test Arrangement and Procedure



- 1. The transmitter output was connected to the spectrum analyzer (through an attenuator, if it's necessary).
- 2. The transmitting duration time was measured by spectrum analyzer with RBW=100 kHz and VBW \geq 100kHz. Measured the 20 dB bandwidth and plotted the graph.

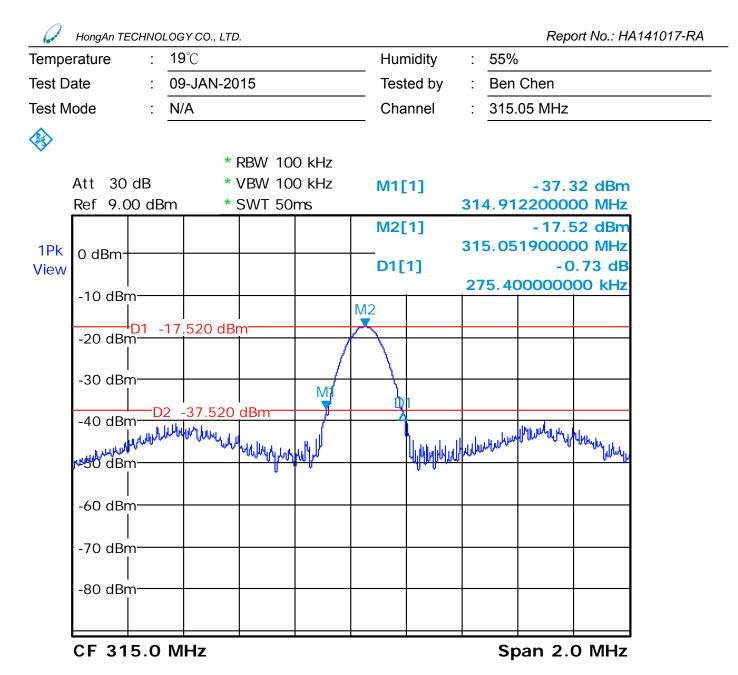
5.3 Limit (§ 15.231(c))

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.

5.4 Test Result

Compliance.

The final test data are shown on the following page(s).



Date: 28.JAN.2015 11:33:47

-20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Result				
275.40	787.6	Pass				
Limit = 0.25% of 315.05 MHz is 787.6kHz						

6 Antenna requirement

6.1 Limit (§ 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. The use of a permanently attached antenna or of an antenna that uses a uniue coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

6.2 Test Result

Compliance.

The EUT applies a PCB antenna with 0 dBi gain.