

FCC PART 15.231

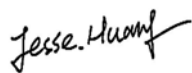
TEST REPORT

For

**NINGBO BAIHUANG ELECTRIC APPLIANCES  
CO., LTD.**

NO. 180, YANSHAN RD, HUXIMEN, HENGHE TOWN, CIXI, NINGBO, China

**FCC ID: Q92-BH-V**

|                                                                                                                                                                                                                                                   |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report                                                                                                                                                                                                            | <b>Product Type:</b><br>Remote Control Transmitter                                    |
| <b>Test Engineer:</b> Peter Jiang                                                                                                                                                                                                                 |  |
| <b>Report Number:</b> RKS161125001-00D                                                                                                                                                                                                            |                                                                                       |
| <b>Report Date:</b> 2016-12-02                                                                                                                                                                                                                    |                                                                                       |
| <b>Reviewed By:</b> Jesse Huang<br>EMC Manager                                                                                                                                                                                                    |  |
| <b>Prepared By:</b> Bay Area Compliance Laboratories Corp. (Kunshan)<br>No.248 Chenghu Road, Kunshan, Jiangsu province, China<br>Tel: +86-0512-86175000<br>Fax: +86-0512-88934268<br><a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a> |                                                                                       |

**Note:** This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The NINGBO BAIHUANG ELECTRIC APPLIANCES CO., LTD.'s product, model number: BH-V (FCC ID: Q92-BH-V), the "EUT" is a Remote Control Transmitter, The EUT was measured approximately: 105mm×39mm×17mm. Rated input voltage: DC 12V from battery.

*\*The product's series model number: BH-P. The difference between them was explained in the declaration letter.*

*\*All measurement and test data in this report was gathered from production sample serial number: 20161121002.*

*(Assigned by BACL Kunshan). The EUT supplied by the applicant was received on 2016-11-21.*

### Objective

This test report is prepared on behalf of Ningbo Baihuang Electric Appliances Co., Ltd. All the test measurements were performed according to the measurement procedure described in ANSI C63.10 - 2013.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209, 15.35(c) and 15.231 rules.

### Related Submittal(s)/Grant(s)

FCC Part 15B submission with FCC ID: Q92-BH9906U& FCC ID: Q92-BH9912U.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10 - 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.10-2013.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

## SYSTEM TEST CONFIGURATION

### Justification

The applicant is seeking the compliance of FCC Part 15.231(b) for this product.

### EUT Exercise Software

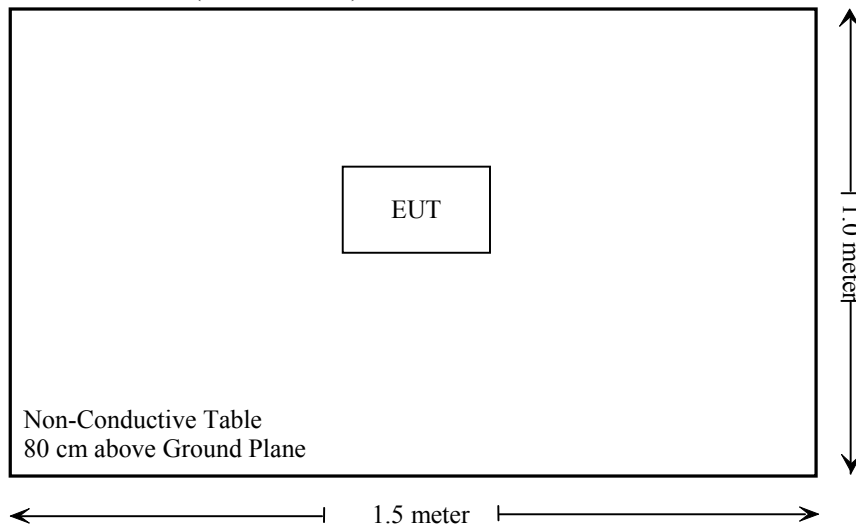
The applicant approved two samples which used different firmware, one is CW mode, and the other is regular mode.

### Equipment Modifications

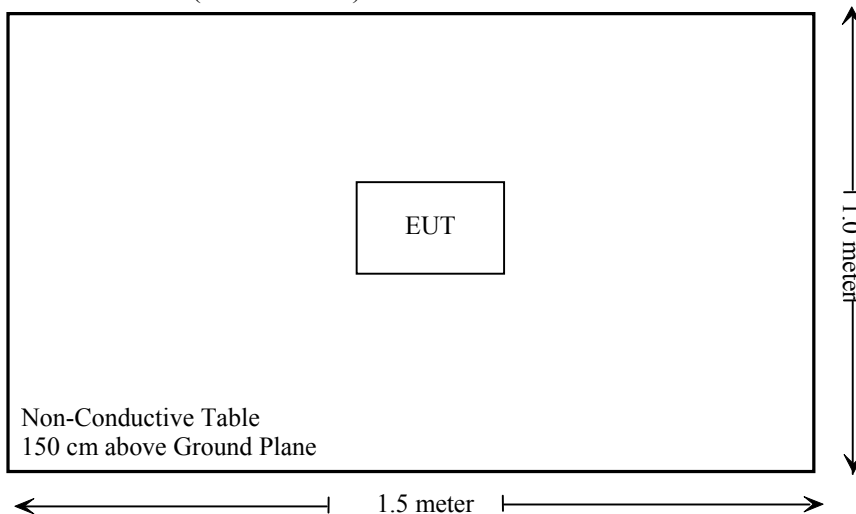
No modification was made to the EUT.

### Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



**SUMMARY OF TEST RESULTS**

| FCC Rules                    | Description of Test     | Result         |
|------------------------------|-------------------------|----------------|
| §15.203                      | Antenna Requirement     | Compliance     |
| §15.207(a)                   | Conducted Emissions     | Not applicable |
| §15.205, §15.209, §15.231(b) | Radiated Emissions      | Compliance     |
| §15.231 (a)(2)               | Deactivation            | Compliance     |
| §15.215 (c)                  | 20dB Emission Bandwidth | Compliance     |

Not applicable: The EUT is powered by battery only.

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## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

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 unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **Antenna Connected Construction**

The EUT has an internal antenna arrangement which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to EUT photos.

**Result:** Compliant.

**FCC §15.205, §15.209, §15.231 (b) - RADIATED EMISSIONS****Applicable Standard**

FCC §15.205, §15.209, §15.231 (b)

According to FCC §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| <b>Fundamental frequency (MHz)</b> | <b>Field strength of fundamental (microvolts/meter)</b> | <b>Field strength of spurious emission (microvolts/meter)</b> |
|------------------------------------|---------------------------------------------------------|---------------------------------------------------------------|
| 40.66-40.70                        | 2250                                                    | 225                                                           |
| 70-130                             | 1250                                                    | 125                                                           |
| 130-174                            | 1250 to 3750 **                                         | 125 to 375 **                                                 |
| 174-260                            | 3750                                                    | 375                                                           |
| 260-470                            | 3750 to 12500 **                                        | 375 to 1250**                                                 |
| Above 470                          | 12500                                                   | 1250                                                          |

Linear interpolations

The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

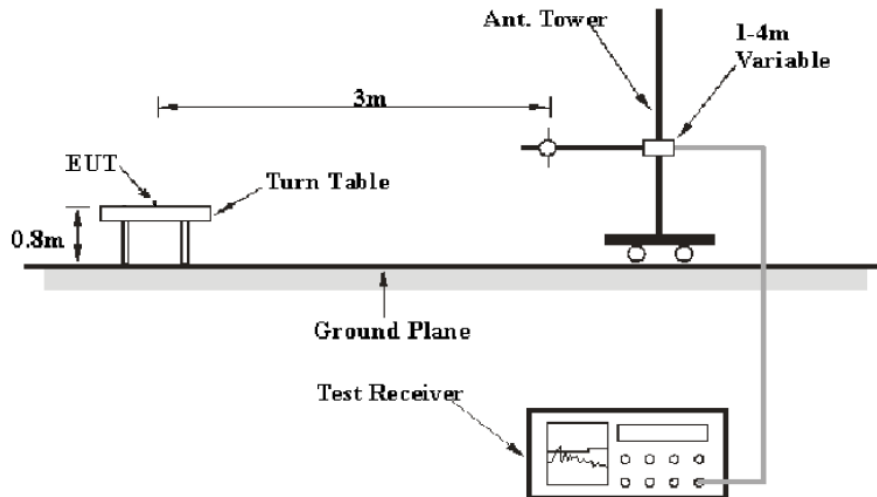
**Measurement Uncertainty**

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

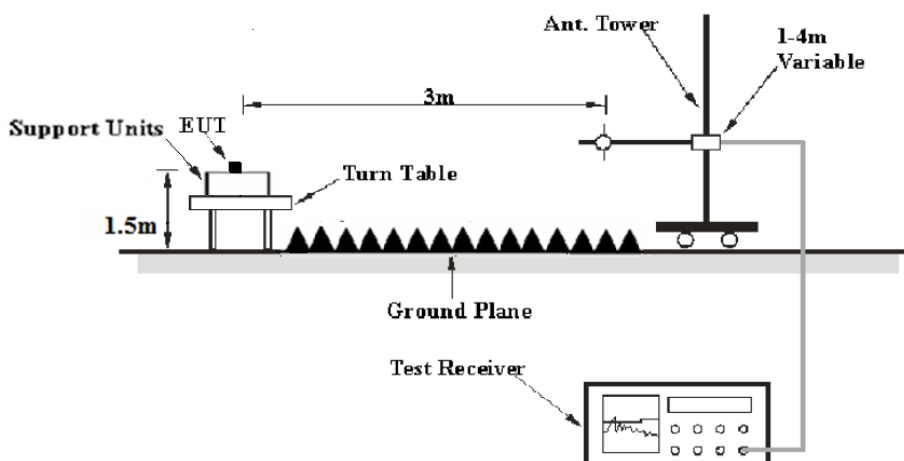
Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Kunshan) is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, and the uncertainty will not be taken into consideration for the test data recorded in the report

## EUT Setup

**Below 1GHz:**



**Above 1 GHz:**



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10 - 2013. The specification used was the FCC 15 § 15.209, 15.205 and 15.231.

## EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W | Detector |
|-------------------|---------|-----------|--------|----------|
| 30MHz – 1000MHz   | 100 kHz | 300 kHz   | 120kHz | QP       |
| 1000MHz – 5000MHz | 1MHz    | 3MHz      | /      | PK       |

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

## Test Equipment List and Details

| Manufacturer      | Description        | Model          | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|--------------------|----------------|---------------|------------------|----------------------|
| Rohde & Schwarz   | EMI Test Receiver  | ESCI           | 100195        | 2016-11-25       | 2017-11-24           |
| Rohde & Schwarz   | Signal Analyzer    | FSIQ26         | 100048        | 2016-11-25       | 2017-11-25           |
| Sunol Sciences    | Broadband Antenna  | JB3            | A090314-2     | 2016-01-09       | 2019-01-08           |
| ETS               | Horn Antenna       | 3115           | 6229          | 2016-01-11       | 2017-01-10           |
| Sonoma Instrument | Amplifier          | 330            | 171377        | 2016-10-21       | 2017-10-21           |
| Narda             | Pre-amplifier      | AFS42-00101800 | 2001270       | 2016-11-18       | 2017-11-17           |
| R&S               | Auto test Software | EMC32          | V 09.10.0     | /                | /                    |
| haojintech        | Coaxial Cable      | Cable-1        | 001           | 2016-09-08       | 2017-09-07           |
| haojintech        | Coaxial Cable      | Cable-2        | 002           | 2016-09-08       | 2017-09-07           |
| haojintech        | Coaxial Cable      | Cable-3        | 003           | 2016-09-08       | 2017-09-07           |
| MICRO-COAX        | Coaxial Cable      | Cable-4        | 004           | 2016-11-18       | 2017-11-17           |
| MICRO-COAX        | Coaxial Cable      | Cable-5        | 005           | 2016-11-18       | 2017-11-17           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.205, §15.209, §15.231 (b).

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

In BACL,  $U_{(L_m)}$  is less than  $U_{\text{cispr}}$ , if  $L_m$  is less than  $L_{\text{lim}}$ , it implies that the EUT complies with the limit.

## Test Data

### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 24 °C     |
| <b>Relative Humidity:</b> | 50 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

The testing was performed by Peter Jiang on 2016-12-01.

Test mode: Transmitting (Scan with X-Axis, Y-Axis and Z-Axis position, the worst case Y-Axis was recorded)

### 30MHz-5GHz (ASK modulation)

| Frequency (MHz) | Receiver       |                       | Turntable Degree | Rx Antenna |             | Corrected Factor (dB) | Corrected Amplitude (dBμV/m) | FCC Part 15.231(b)/205/209 |             |             |
|-----------------|----------------|-----------------------|------------------|------------|-------------|-----------------------|------------------------------|----------------------------|-------------|-------------|
|                 | Reading (dBμV) | Detector (PK/QP/Ave.) |                  | Height (m) | Polar (H/V) |                       |                              | Limit (dBμV/m)             | Margin (dB) | Remark      |
| 433.92          | 88.54          | PK                    | 41               | 1.1        | H           | -8.40                 | 80.14                        | 100.82                     | 21.15       | Fundamental |
| 433.92          | 82.31          | PK                    | 108              | 1.5        | V           | -8.40                 | 73.91                        | 100.82                     | 16.20       | Fundamental |
| 867.84          | 55.64          | PK                    | 284              | 1.1        | H           | -1.00                 | 54.64                        | 80.82                      | 20.57       | Harmonic    |
| 867.84          | 52.47          | PK                    | 191              | 2.1        | V           | -1.00                 | 51.47                        | 80.82                      | 20.53       | Harmonic    |
| 1301.76         | 44.50          | PK                    | 318              | 1.7        | H           | -10.40                | 34.10                        | 74.00                      | 26.72       | Harmonic    |
| 1301.76         | 42.67          | PK                    | 188              | 2.3        | V           | -10.40                | 32.27                        | 74.00                      | 26.72       | Harmonic    |
| 1735.68         | 49.51          | PK                    | 147              | 1.4        | H           | -7.80                 | 41.71                        | 80.82                      | 21.26       | Harmonic    |
| 1735.68         | 47.36          | PK                    | 142              | 1.6        | V           | -7.80                 | 39.56                        | 80.82                      | 21.26       | Harmonic    |
| 2169.6          | 42.04          | PK                    | 184              | 1.8        | H           | -6.50                 | 35.54                        | 80.82                      | 25.28       | Harmonic    |
| 2169.6          | 40.67          | PK                    | 224              | 1.6        | V           | -6.50                 | 34.17                        | 80.82                      | 16.17       | Harmonic    |
| 2603.52         | 50.14          | PK                    | 354              | 1.2        | H           | -4.90                 | 45.24                        | 80.82                      | 11.16       | Harmonic    |
| 2603.52         | 46.79          | PK                    | 120              | 2.3        | V           | -4.90                 | 41.89                        | 80.82                      | 11.26       | Harmonic    |
| 4339.2          | 55.34          | PK                    | 132              | 1.2        | H           | 0.20                  | 55.54                        | 74.00                      | 17.34       | Harmonic    |
| 4339.2          | 51.49          | PK                    | 129              | 1.9        | V           | 0.20                  | 51.69                        | 74.00                      | 17.25       | Harmonic    |

## Field Strength of Average Emission

| Frequency (MHz) | Peak Measurement@3m (dBμV/m) | Polar (H/V) | Duty Cycle Corrected Factor (dB) | Corrected Amplitude (dBμV/m) | FCC Part 15.231(b)/205/209 |             |             |
|-----------------|------------------------------|-------------|----------------------------------|------------------------------|----------------------------|-------------|-------------|
|                 |                              |             |                                  |                              | Limit (dBμV/m)             | Margin (dB) | Comment     |
| 433.92          | 80.14                        | H           | -8.58                            | 71.56                        | 80.82                      | 9.26        | Fundamental |
| 433.92          | 73.91                        | V           | -8.58                            | 65.33                        | 80.82                      | 15.49       | Fundamental |
| 867.84          | 54.64                        | H           | -8.58                            | 46.06                        | 60.82                      | 14.76       | Harmonic    |
| 867.84          | 51.47                        | V           | -8.58                            | 42.89                        | 60.82                      | 17.93       | Harmonic    |
| 1301.76         | 34.1                         | H           | -8.58                            | 25.52                        | 54.00                      | 28.48       | Harmonic    |
| 1301.76         | 32.27                        | V           | -8.58                            | 23.69                        | 54.00                      | 30.31       | Harmonic    |
| 1735.68         | 41.71                        | H           | -8.58                            | 33.13                        | 60.82                      | 27.69       | Harmonic    |
| 1735.68         | 39.56                        | V           | -8.58                            | 30.98                        | 60.82                      | 29.84       | Harmonic    |
| 2169.60         | 35.54                        | H           | -8.58                            | 26.96                        | 60.82                      | 33.86       | Harmonic    |
| 2169.60         | 34.17                        | V           | -8.58                            | 25.59                        | 60.82                      | 35.23       | Harmonic    |
| 2603.52         | 45.24                        | H           | -8.58                            | 36.66                        | 60.82                      | 24.16       | Harmonic    |
| 2603.52         | 41.89                        | V           | -8.58                            | 33.31                        | 60.82                      | 27.51       | Harmonic    |
| 4339.20         | 55.54                        | H           | -8.58                            | 46.96                        | 54.00                      | 7.04        | Harmonic    |
| 4339.20         | 51.69                        | V           | -8.58                            | 43.11                        | 54.00                      | 10.89       | Harmonic    |

Note 1:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (Rx) + cable loss – amplifier factor

Margin = Limit - Corr. Amplitude

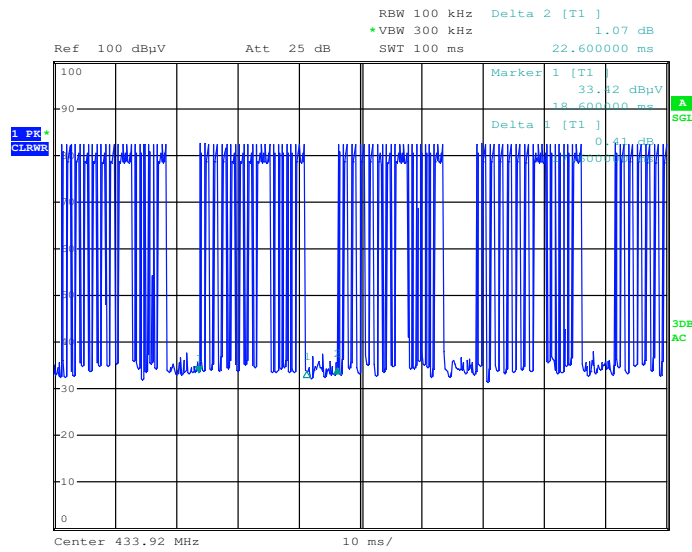
Note 2:

Calculate Average value based on Duty Cycle correction factor:

 $T_p = 22.60\text{ms}$  $T_{on} = T_{on1}N_1 + T_{on2}N_2 + \dots + T_{onn}N_n = 0.18\text{ms} \times 14 + 0.536\text{ms} \times 11 = 8.416\text{ms}$ Duty Cycle Corrected Factor =  $20 \times \log(T_{on}/T_p) = 20 \times \log(8.416\text{ms} / 22.60\text{ms}) = -8.58\text{dB}$ 

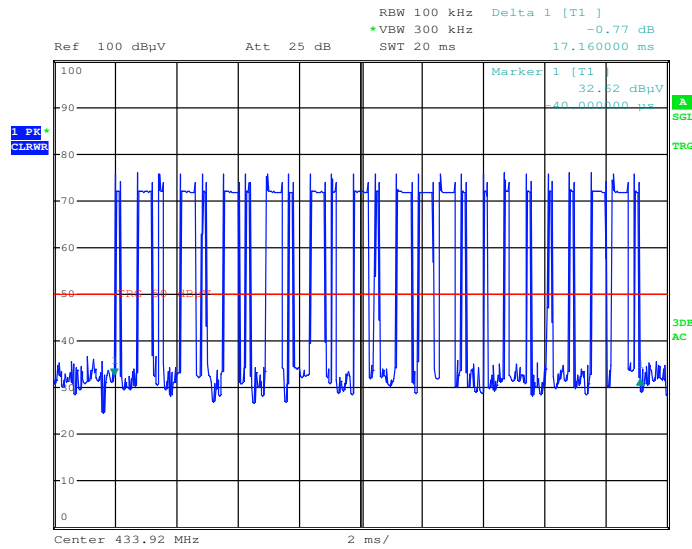
Average = Peak + Duty Cycle Corrected Factor

### Duty Cycle 1



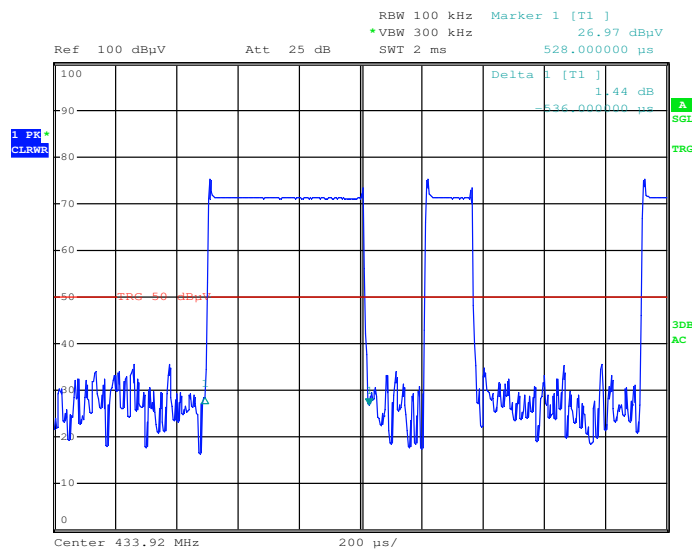
Date: 1.DEC.2016 12:12:30

### Duty Cycle 2



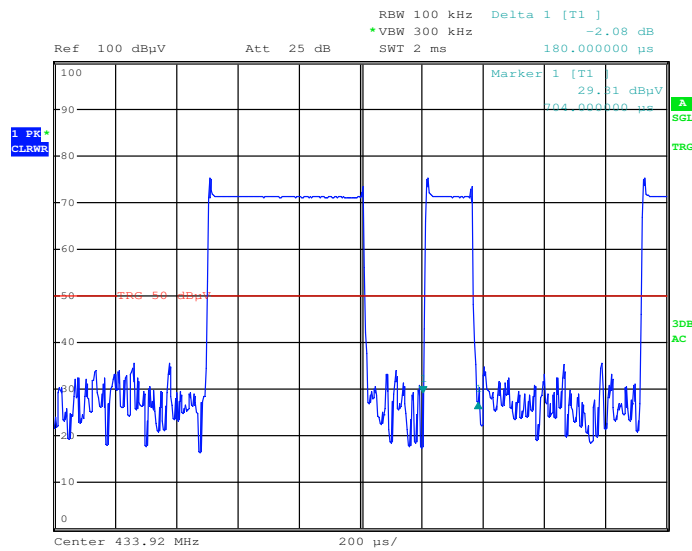
Date: 1.DEC.2016 12:15:27

### Duty Cycle 3



Date: 1.DEC.2016 12:20:30

### Duty Cycle 4



Date: 1.DEC.2016 12:21:22

## FCC §15.231(a) (2) - DEACTIVATION TESTING

### Applicable Standard

Per FCC §15.231(a) (2), a transmitter activated automatically shall cease transmission within 5 seconds after activation.

### Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

### Test Equipment List and Details

| Manufacturer      | Description        | Model   | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|--------------------|---------|---------------|------------------|----------------------|
| Rohde & Schwarz   | EMI Test Receiver  | ESCI    | 100195        | 2016-11-25       | 2017-11-24           |
| Rohde & Schwarz   | Signal Analyzer    | FSIQ26  | 100048        | 2016-11-25       | 2017-11-25           |
| Sunol Sciences    | Broadband Antenna  | JB3     | A090314-2     | 2016-01-09       | 2019-01-08           |
| Sonoma Instrument | Amplifier          | 330     | 171377        | 2016-10-21       | 2017-10-21           |
| R&S               | Auto test Software | EMC32   | V 09.10.0     | /                | /                    |
| haojintech        | Coaxial Cable      | Cable-1 | 001           | 2016-09-08       | 2017-09-07           |
| haojintech        | Coaxial Cable      | Cable-2 | 002           | 2016-09-08       | 2017-09-07           |
| haojintech        | Coaxial Cable      | Cable-3 | 003           | 2016-09-08       | 2017-09-07           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements, traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

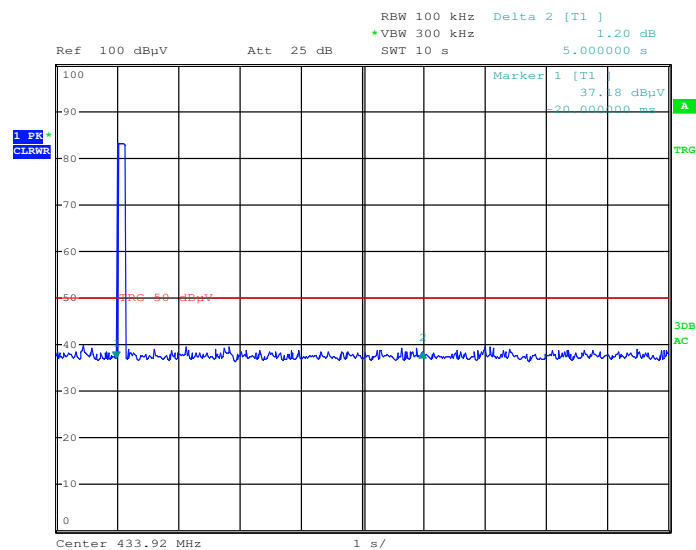
The testing was performed by Peter Jiang on 2016-12-01.

Test mode: Transmitting

**Test Result:** Compliant, please refer to following plot.

ASK Modulation

5s



Date: 1.DEC.2016 12:09:23

## FCC §15.231(c) - 20dB EMISSION BANDWIDTH TESTING

### Applicable Standard

Per 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, Bandwidth is determined at the points 20 dB down from the modulated carrier.

### Test Procedure

With the EUT's antenna attached, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

### Test Equipment List and Details

| Manufacturer      | Description        | Model   | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|--------------------|---------|---------------|------------------|----------------------|
| Rohde & Schwarz   | EMI Test Receiver  | ESCI    | 100195        | 2016-11-25       | 2017-11-24           |
| Rohde & Schwarz   | Signal Analyzer    | FSIQ26  | 100048        | 2016-11-25       | 2017-11-25           |
| Sunol Sciences    | Broadband Antenna  | JB3     | A090314-2     | 2016-01-09       | 2019-01-08           |
| Sonoma Instrument | Amplifier          | 330     | 171377        | 2016-10-21       | 2017-10-21           |
| R&S               | Auto test Software | EMC32   | V 09.10.0     | /                | /                    |
| Haojintech        | Coaxial Cable      | Cable-1 | 001           | 2016-09-08       | 2017-09-07           |
| Haojintech        | Coaxial Cable      | Cable-2 | 002           | 2016-09-08       | 2017-09-07           |
| Haojintech        | Coaxial Cable      | Cable-3 | 003           | 2016-09-08       | 2017-09-07           |

**\* Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 53 %      |
| ATM Pressure:      | 101.0 kPa |

The testing was performed by Peter Jiang on 2016-12-01.

Test Mode: Transmitting

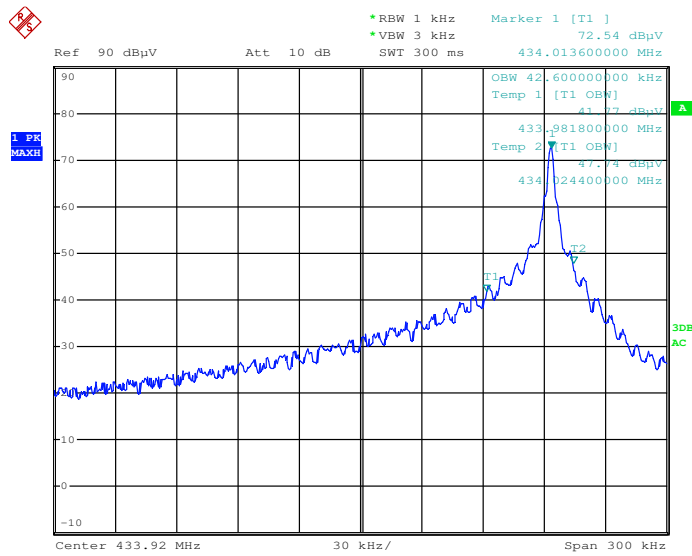
Please refer to following table and plot.

**ASK modulation:**

| Channel Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (kHz) | Result |
|-------------------------|----------------------|-------------|--------|
| 433.92                  | 42.60                | 1084.8      | Pass   |

**Note:** Limit = 0.25% \* Center Frequency = 0.25% \* 433.92 MHz = 1084.8 kHz  
 20dB Bandwidth=42.60 kHz<1084.8 kHz

**20 dB Emission Bandwidth**



Date: 1.DEC.2016 15:37:13

**\*\*\*\*\* END OF REPORT \*\*\*\*\***