

| Report No:<br>File reference No: | FCC1605227<br>2016-05-31  |
|----------------------------------|---|
| Applicant:                       | Dowellin Toys Factory.  |
| Product:                         | RC Drone  |
| Model No:                        | volar-360,volar-360c,volar-360w,volar-360x,volar-360s, volar-x7,<br>volar-x7c,volar-x7w,volar-x7s,venus-x11,volar-x7a, viking-x5,<br>viking-x5c,viking-x5w,viking-x6,viking-x6c, viking-x6w,<br>viking-x6s,volt-x8,volt-x8c,volt-x8w,volt-x8d,volt-x8s,<br>venus-x11c,venus-x11w,venus-x11d,venus-x11a,venus-x11s |
| Brand Name:                      | DWI DOWELLIN  |
| Test Standards:                  | FCC Part 15.249   |
| Test result:                     | It is herewith confirmed and found to comply with the requirements<br>set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249<br>regulations and RSS-210 for the evaluation of electromagnetic<br>compatibility  |
| Approved By                      | F   |
| Jack Chung                       |   |
| Jack Chung                       |   |
| Manager                          |   |
| Dated:                           | May 31, 2016  |

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com



# **Special Statement**:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

# CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

# FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

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### 1.0 General Details

1.1 Test Lab Details

| Name :   | Global United Technology Service Co., Ltd                       |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Address:   | 2nd Floor, Block No.2, Laodong Industrial Zone, Shenzhen, China |  |  |  |  |  |
| Telephone:   | (755) 27798480  |  |  |  |  |  |
| Fax:   | (755) 2779 8960   |  |  |  |  |  |
| Site on File                                       | with the Federal Communications Commission – United Sates       |  |  |  |  |  |
| Registration Number: 600491                        |   |  |  |  |  |  |
| For 3m Anechoic Chamber                            |   |  |  |  |  |  |
| Site Listed with Industry Canada of Ottawa, Canada |   |  |  |  |  |  |
| Registration Number: IC: 9079A-02                  |   |  |  |  |  |  |
| For 3m Anechoic Chamber                            |   |  |  |  |  |  |

1.2 Applicant Details

| Applicant: | Dowellin Toys Factory.   |
|------------|--|
| Address:   | 1 Road FengXin ChengHai District, ShanTou City, GuangDong, China |
| Telephone: | 0754-88096811  |
| Fax:       | 0754-88096810  |

1.3 Description of EUT

| -                          |   |
|----------------------------|---|
| Product:                   | RC Drone  |
| Manufacturer:              | Dowellin Toys Factory.  |
| Address:                   | 1 Road FengXin ChengHai District, ShanTou City, GuangDong, China                    |
| Brand Name:                | DWI DOWELLIN  |
| Model Number:              | volar-360   |
| Additional Model Name      | volar-360c,volar-360w,volar-360x,volar-360s,volar-x7,volar-x7c,volar-x7w,volar-x7s, |
|                            | venus-x11,volar-x7a,viking-x5,viking-x5c,viking-x5w,viking-x6,viking-x6c,           |
|                            | viking-x6w,viking-x6s,volt-x8,volt-x8c,volt-x8w,volt-x8d,volt-x8s,venus-x11c,       |
|                            | venus-x11w,venus-x11d,venus-x11a,venus-x11s   |
| Input Voltage:             | DC3V, Two PCS AAA batteries   |
| Modulation Type:           | GFSK  |
| <b>Operation Frequency</b> | 2402-2466MHz  |
| Channel Spacing:           | 1MHz  |
| Antenna Designation        | Integral antenna with gain 1.2dBi Max   |
|                            |   |

- 1.4 Submitted Sample
  - 2 Sample

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- 1.5 Test Duration 2016-05-23 to 2016-05-31
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

lerry lang Test Engineer

The sample tested by

1.7

Print Name: Terry Tang

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| 2.0 Test Equipments |                  |              |             |              |            |  |  |
|---------------------|------------------|--------------|-------------|--------------|------------|--|--|
| Instrument Type     | Manufacturer     | Model        | Serial No.  | Date of Cal. | Due Date   |  |  |
| ESPI Test Receiver  | R&S              | ESPI 3       | 100379      | 2015-08-22   | 2016-08-21 |  |  |
| TWO                 | R&S              |              | 100204      | 2015 00 22   | 2016 00 21 |  |  |
| Line-V-NETW         |                  | EZH3-Z5      | 100294      | 2015-08-22   | 2016-08-21 |  |  |
| TWO                 | R&S              | E7112 75     | 100252      | 2015 08 22   | 2016-08-21 |  |  |
| Line-V-NETW         |                  | EZH3-Z5      | 100253      | 2015-08-22   | 2016-08-21 |  |  |
| ESDV Test Receiver  | R&S              | ESDV         | 100008      | 2015-08-22   | 2016-08-21 |  |  |
| Impuls-Begrenzer    | R&S              | ESH3-Z2      | 100281      | 2015-08-22   | 2016-08-21 |  |  |
| System Controller   | СТ               | SC100        | -           |              |            |  |  |
| Loop Antenna        | EMCO             | 6502         | 00042960    | 2015-08-23   | 2016-08-22 |  |  |
| ESPI Test Receiver  | R&S              | ESI26        | 838786/013  | 2015-08-22   | 2016-08-21 |  |  |
| 3m Anechoic         | 71 V. E1         | 9.2(L)*6.2(W |             | 2015 08 22   | 2016-08-22 |  |  |
| Chamber             | ZhongYu Electron | )* 6.4(H)    |             | 2015-08-23   | 2010-08-22 |  |  |
| Horn Antenna        | R&S              | BBHA 9170    | BBHA9170265 | 2015-08-24   | 2016-08-23 |  |  |
| Horn Antenna        | R&S              | BBHA 9120D   | 9120D-631   | 2015-08-24   | 2016-08-23 |  |  |
| Power meter         | Anritsu          | ML2487A      | 6K00003613  | 2015-08-22   | 2016-08-21 |  |  |
| Power sensor        | Anritsu          | MA2491A      | 32263       | 2015-08-22   | 2016-08-21 |  |  |
| Bilog Antenna       | Schwarebeck      | VULB9163     | 9163/340    | 2015-08-23   | 2016-08-21 |  |  |
| 9*6*6 Anechoic      |                  |              | N/A         | 2015-08-24   | 2016-08-23 |  |  |
| EMI Test Receiver   | RS               | ESCS30       | 100139      | 2015-08-22   | 2016-08-21 |  |  |
| RF Cable            | SCHWARZBECK      |              |             | 2015-08-23   | 2016-08-22 |  |  |
| Pre-Amplifier       | HP               | 8447D        | 2727A05017  | 2015-08-05   | 2016-08-04 |  |  |
| Pre-Amplifier       | EM               | EM30265      |             | 2015-08-05   | 2016-08-04 |  |  |

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### **3.0** Technical Details

### 3.1 Summary of test results

| The EUT has been tested according to the following specifications: |                                     |        |          |  |  |
|--|-------------------------------------|--------|----------|--|--|
| Standard   | Test Type                           | Result | Notes    |  |  |
| FCC Part 15, Paragraph 15.207                                      | Conducted<br>Emission Test          | PASS   | Complies |  |  |
| FCC Part 15 Subpart C Paragraph 15.249(a)<br>& 15.249(b) Limit     | Field Strength<br>of<br>Fundamental | PASS   | Complies |  |  |
| FCC Part 15, Paragraph 15.209                                      | Radiated<br>Emission Test           | PASS   | Complies |  |  |
| FCC Part 15 Subpart C Paragraph 15.249(d)<br>Limit                 | Band Edge<br>Test                   | PASS   | Complies |  |  |

### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4 :2014 and ANSI C63.10 :2013

### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

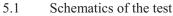
The report refers only to the sample tested and does not apply to the bulk.

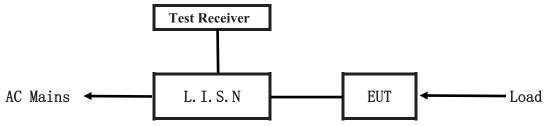
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### 5. Power Line Conducted Emission Test



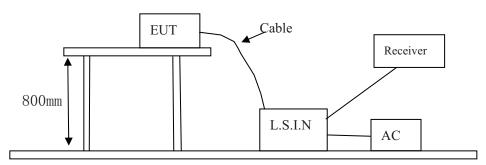


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. One channels are provided to the EUT

| A.   | EUT |
|------|-----|
| 1 1. | L01 |

| Device   | Manufacturer              | Model  | FCC ID        |
|----------|---------------------------|--|---------------|
| RC Drone | Dowellin Toys<br>Factory. | volar-360,volar-360c,volar-360w,volar-360x,volar-360s,<br>volar-x7,volar-x7c,volar-x7w,volar-x7s,venus-x11,<br>volar-x7a,viking-x5,viking-x5c,viking-x5w,viking-x6,<br>viking-x6c,viking-x6w,viking-x6s,volt-x8,volt-x8c,<br>volt-x8w,volt-x8d,volt-x8s,venus-x11c,venus-x11w,<br>venus-x11d,venus-x11a,venus-x11s | 2AGZ8VOLAR360 |

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B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A    |              |       |            |

C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|--------|--------------|-------|------------|-------|
| N/A    |              |       |            |       |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

### 5.5 Power line conducted Emission Limit according to Paragraph 15.107 and 15.207

| Enguanau(MILT)    | Class A Lir      | nits (dB µ V) | Class B Limits (dB µ V) |               |
|-------------------|------------------|---------------|-------------------------|---------------|
| Frequency(MHz)    | Quasi-peak Level | Average Level | Quasi-peak Level        | Average Level |
| $0.15~\sim~0.50$  | 79.0             | 66.0          | 66.0~56.0*              | 56.0~46.0*    |
| $0.50~\sim~5.00$  | 73.0             | 60.0          | 56.0                    | 46.0          |
| $5.00 \sim 30.00$ | 73.0             | 60.0          | 60.0                    | 50.0          |

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

### 5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

### Note: Due to Battery operation, this test item not applicable.

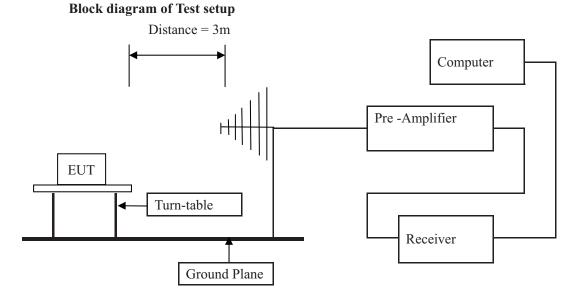
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### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

| Fundamental Frequency | Field Stre | Field Strength of Fundamental (3m) |            |      | trength of Harmo | nics (3m) |
|-----------------------|------------|------------------------------------|------------|------|------------------|-----------|
| (MHz)                 | mV/m       | dBu                                | V/m        | uV/m | dBu              | V/m       |
| 2400-2483.5           | 50         | 94 (Average)                       | 114 (Peak) | 500  | 54 (Average)     | 74 (Peak) |

Note: 1. RF Field Strength  $(dBuV) = 20 \log RF$  Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88                 | 3            | 40.0                          |
| 88-216                | 3            | 43.5                          |
| 216-960               | 3            | 46.0                          |
| Above 960             | 3            | 54.0                          |

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4 All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-18G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.6. New batteries were installed in the equipment under test for radiated emission testing.

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### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

| Product:      | RC Drone                           | Test Mode:   | Keep transmitting-Low Channel |
|---------------|------------------------------------|--------------|-------------------------------|
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                          |
| Test Voltage: | DC3V                               | Humidity:    | 56%                           |
| Test Result:  | Pass                               |              |                               |

| Frequency<br>(MHz) | Emission PK/AV<br>(dBuV/m) | Horiz /<br>Vert | Limits PK/AV<br>(dBuV/m) | Margin<br>(dB) |
|--------------------|----------------------------|-----------------|--------------------------|----------------|
| 2402               | 96.79(PK)/ 88.11(PK)       | Н               | 114/94                   | -17.21/-5.89   |
| 2402               | 94.06(PK)/ 85.62(PK)       | V               | 114/94                   | -19.94/-8.38   |
| 4804               |                            | Н               | 74/54                    |                |
| 7206               |                            | V               | 74/54                    |                |
| 9608               |                            | Н               | 74/54                    |                |
| 12010              |                            | V               | 74/54                    |                |
| 14412              |                            | Н               | 74/54                    |                |
| 16814              |                            | V               | 74/54                    |                |
| 19216              |                            | H/V             | 74/54                    |                |
| 21618              |                            | H/V             | 74/54                    |                |
| 24020              |                            | H/V             | 74/54                    |                |

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) The measured PK value less than the AV limit.

(6) For fundamental frequency, RBW 3MHz VBW 10MHz Peak detector is for PK value RMS detector is for AV value

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| Product:      | RC Drone                           | Test Mode:   | Keep transmitting-Middle Channel |
|---------------|------------------------------------|--------------|----------------------------------|
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                             |
| Test Voltage: | DC3V                               | Humidity:    | 56%                              |
| Test Result:  | Pass                               |              |                                  |

| Frequency | Emission PK/AV       | Horiz / | Limits PK/AV | Margin        |
|-----------|----------------------|---------|--------------|---------------|
| (MHz)     | (dBuV/m)             | Vert    | (dBuV/m)     | ( <b>dB</b> ) |
| 2434      | 97.31(PK)/ 88.52(PK) | Н       | 114/94       | -16.70/-5.48  |
| 2434      | 94.82(PK)/ 86.29(PK) | V       | 114/94       | -19.18/-7.71  |
| 4868      |                      | Н       | 74/54        |               |
| 7302      |                      | V       | 74/54        |               |
| 9736      |                      | Н       | 74/54        |               |
| 12170     |                      | V       | 74/54        |               |
| 14604     |                      | Н       | 74/54        |               |
| 17038     |                      | V       | 74/54        |               |
| 19472     |                      | H/V     | 74/54        |               |
| 21906     |                      | H/V     | 74/54        |               |
| 24340     |                      | H/V     | 74/54        |               |

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) The measured PK value less than the AV limit.

(6) For fundamental frequency , RBW 3MHz VBW 10MHz Peak detector is for PK value RMS detector is for AV value

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| Product:      | RC Drone                           | Test Mode:   | Keep transmitting-High Channel |
|---------------|------------------------------------|--------------|--------------------------------|
| Test Item:    | Fundamental Radiated Emission Data | Temperature: | 25°C                           |
| Test Voltage: | DC3V                               | Humidity:    | 56%                            |
| Test Result:  | Pass                               |              |                                |

| Frequency | Emission PK/AV       | Horiz / | Limits PK/AV | Margin        |
|-----------|----------------------|---------|--------------|---------------|
| (MHz)     | (dBuV/m)             | Vert    | (dBuV/m)     | ( <b>dB</b> ) |
| 2466      | 97.02(PK)/ 88.35(PK) | Н       | 114/94       | -16.98/-5.65  |
| 2466      | 94.52(PK)/ 86.20(PK) | V       | 114/94       | -19.48/-7.80  |
| 4932      |                      | Н       | 74/54        |               |
| 7396      |                      | V       | 74/54        |               |
| 9864      |                      | Н       | 74/54        |               |
| 12330     |                      | V       | 74/54        |               |
| 14796     |                      | Н       | 74/54        |               |
| 17262     |                      | V       | 74/54        |               |
| 19728     |                      | H/V     | 74/54        |               |
| 22194     |                      | H/V     | 74/54        |               |
| 24660     |                      | H/V     | 74/54        |               |

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) The measured PK value less than the AV limit.

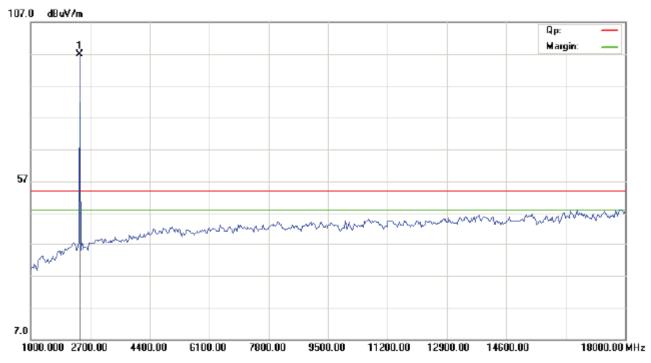
(6) For fundamental frequency, RBW 3MHz VBW 10MHz Peak detector is for PK value RMS detector is for AV value

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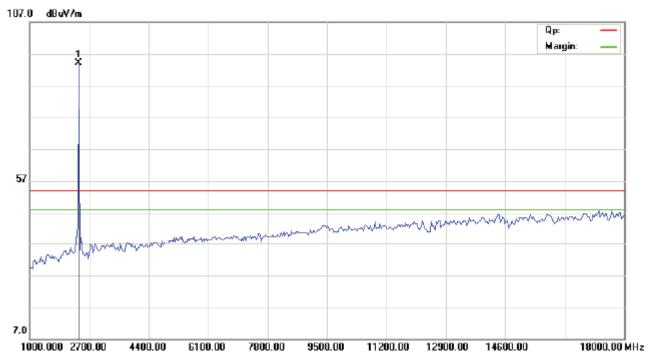
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Please refer to the following test plots for details: Low Channel **Horizontal** 



Vertical

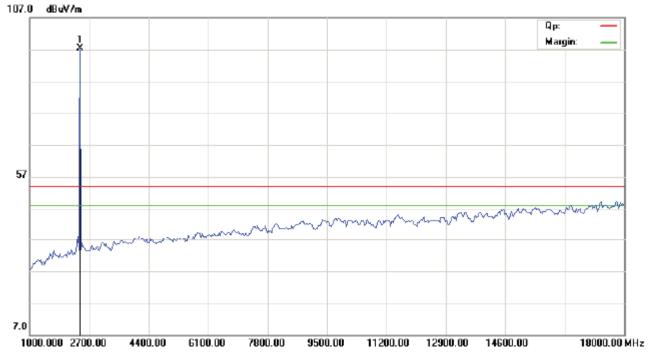


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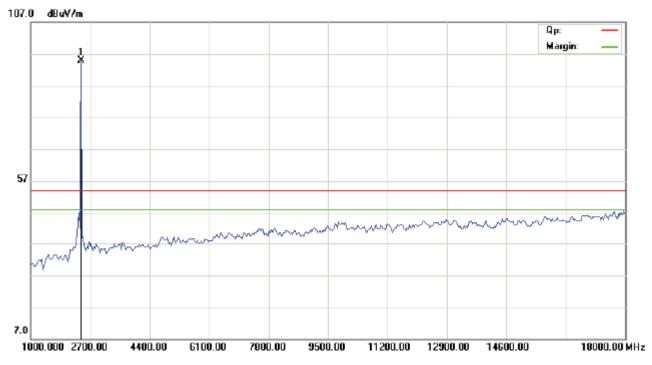
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# Please refer to the following test plots for details: Middle Channel **Horizontal**



Vertical

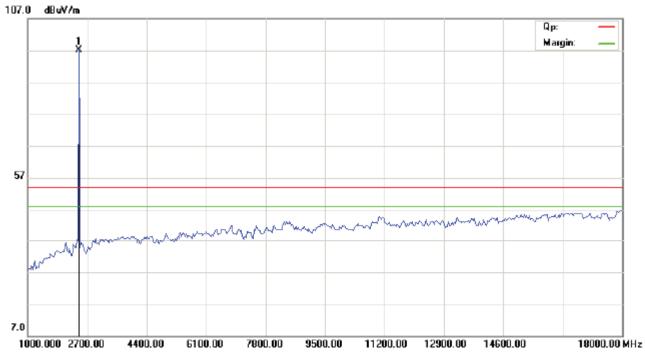


The report refers only to the sample tested and does not apply to the bulk.

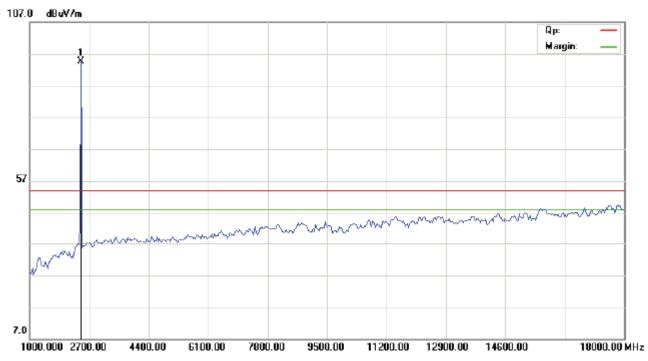
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Please refer to the following test plots for details: High Channel **Horizontal** 



Vertical



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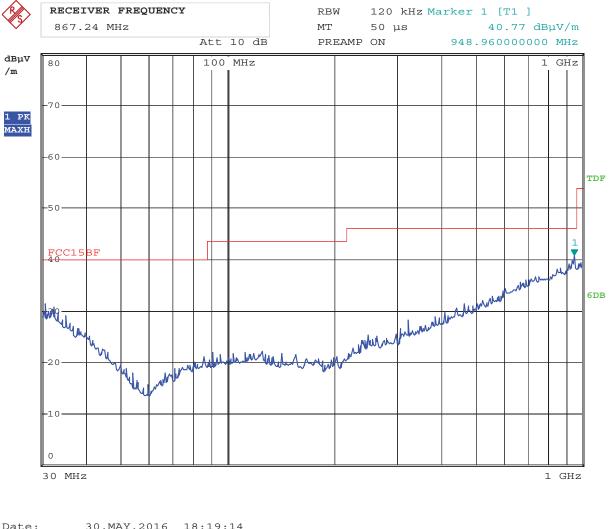


## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual



| Date: | 30.MAY.2016 | 18:19:14 |  |
|-------|-------------|----------|--|
|       |             |          |  |

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB µ V/m) |
|-----------------|-------------------------|------------------|---------------------|
| 948.960         | 40.77                   | Н                | 46.00               |

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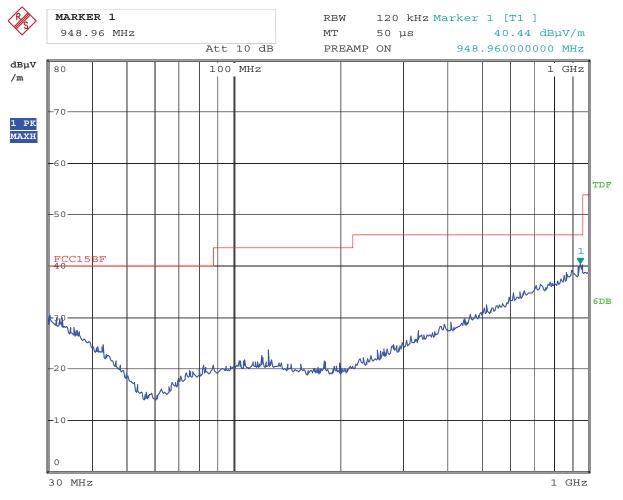


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual



| Date: | 30.MAY.2016 | 18:14:52 |
|-------|-------------|----------|

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB µ V/m) |
|-----------------|-------------------------|------------------|---------------------|
| 948.960         | 40.44                   | V                | 46.00               |

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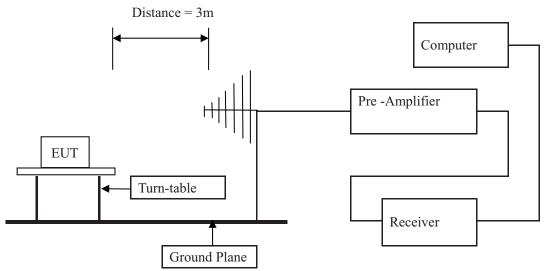


### 7. Band Edge

### 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 899988
- (2) Set Spectrum as RBW=1MHz,VBW=3MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

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 Section 15.209, whichever is the lesser attenuation.

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### 7.6 Test Result

| Product:     | R                    | C Drone | Polarity     | Horizontal                   |
|--------------|----------------------|---------|--------------|------------------------------|
| Mode         | Keeping Transmitting |         | Test Voltage | DC3V                         |
| Temperature  | 24 deg. C,           |         | Humidity     | 56% RH                       |
| Test Result: |                      | Pass    |              |                              |
| 2400MHz      | PK (dBµV/m)          | 41.37   | Limit        | 74 $dB\mu V/m$               |
| 2400MHz      | AV (dBµV/m)          |         | Limit        | $54 \text{ dB}\mu\text{V/m}$ |
| 2390 MHz     | PK (dBµV/m)          | 47.29   | Limit        | 74 dBµV/m                    |
| 2390 MHz     | AV (dBµV/m)          |         | Limit        | 54 dBµV/m                    |

| Product:     | RC Drone             |       | Detector     | Vertical        |
|--------------|----------------------|-------|--------------|-----------------|
| Mode         | Keeping Transmitting |       | Test Voltage | DC3V            |
| Temperature  | 24 deg. C,           |       | Humidity     | 56% RH          |
| Test Result: | Pass                 |       |              |                 |
| 2400MHz      | PK (dBµV/m)          | 40.85 | Limit        | 74 $dB\mu V/m$  |
| 2400MHz      | AV ( $dB\mu V/m$ )   |       | Limit        | 54 $dB\mu V/m$  |
| 2390 MHz     | PK (dBµV/m)          | 46.82 | Limit        | 74 dB $\mu$ V/m |
| 2390 MHz     | AV ( $dB\mu V/m$ )   |       | Limit        | 54 $dB\mu V/m$  |

| Product:     | R           | C Drone        | Polarity     | Horizontal |
|--------------|-------------|----------------|--------------|------------|
| Mode         | Keeping     | g Transmitting | Test Voltage | DC3V       |
| Temperature  | 24          | 4 deg. C,      | Humidity     | 56% RH     |
| Test Result: | Pass        |                |              |            |
| 2483.5MHz    | PK (dBµV/m) | 41.19          | Limit        | 74 dBµV/m  |
| 2483.5MHz    | AV (dBµV/m) |                | Limit        | 54 dBµV/m  |

| Product:     | R           | C Drone        | Detector     | Vertical  |
|--------------|-------------|----------------|--------------|-----------|
| Mode         | Keepin      | g Transmitting | Test Voltage | DC3V      |
| Temperature  | 2           | 4 deg. C,      | Humidity     | 56% RH    |
| Test Result: | Pass        |                |              |           |
| 2483.5MHz    | PK (dBµV/m) | 41.32          | Limit        | 74 dBµV/m |
| 2483.5MHz    | AV (dBµV/m) |                | Limit        | 54 dBµV/m |

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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### 8.0 Antenna Requirement

### **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.

This product has a integral antenna. The antenna gain is 1.2dBi Max. It fulfills the requirement of this section. Test Result: Pass

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| 9.0 20dB Bandwidt<br>Product: |                                    | RC Drone               |        | т                        | act Mada        |                   | Koon ture            | amittina                      |     |
|-------------------------------|------------------------------------|------------------------|--------|--------------------------|-----------------|-------------------|----------------------|-------------------------------|-----|
|                               |                                    |                        |        | Test Mode:               |                 | Keep transmitting |                      |                               |     |
| Mode                          | Keeping Transmitting<br>24 deg. C, |                        |        | Test Voltage<br>Humidity |                 | DC3V<br>56% RH    |                      |                               |     |
| Temperature                   |                                    |                        |        |                          |                 |                   |                      |                               |     |
| Test Result:                  |                                    | Pass                   |        |                          | Detector        |                   | P                    | K                             |     |
| 20dB Bandwidth                |                                    | 1.14MHz                |        |                          |                 |                   |                      |                               |     |
| Ref Lvl                       | Marker<br>ndB                      | 1 [T1 ndB]<br>20.00 dB |        | BW<br>BW                 | 30 kH<br>100 kH |                   | F Att                | 20 dB                         |     |
| 10 dBm                        | BW                                 | 1.13627255 MH          | Iz S   | WT                       | 8.5 ms          | 5 U1              | nit                  | dBm                           | 1   |
|                               |                                    | 1                      |        |                          | <b>V</b> 1      | [T1]              | 2.40187              | l.15 dBm<br>7675 GHz          | A   |
| 0                             |                                    |                        | vVV    |                          | ndB<br>BW       | [ma.]             | 20<br>1.13627<br>-18 |                               |     |
| -10                           |                                    | T7                     |        |                          | ▼T2             | [T1]              | 2.40152              | .90 dBm<br>806 GHz<br>.43 dBm | L   |
| -20<br>1MAX                   |                                    |                        |        |                          |                 | Ly .              | 2.40266              | 433 GHz                       | 1MA |
| -30                           | Amm                                |                        |        |                          |                 | V                 | W                    | N.                            |     |
| -40<br>-50                    | Jun                                |                        |        |                          |                 |                   |                      | The second                    | ,   |
| J.                            |                                    |                        |        |                          |                 |                   |                      |                               |     |
| - 6 0                         |                                    |                        |        |                          |                 |                   |                      |                               |     |
| -70                           |                                    |                        |        |                          |                 |                   |                      |                               | 2   |
| - 8 0                         |                                    |                        |        |                          |                 |                   |                      |                               |     |
| -90<br>Center 2.              | 402 GHz                            | 30                     | 0 kHz/ |                          |                 |                   | Spa                  | an 3 MHz                      | 7   |
|                               |                                    | 305:45:10              | 0 kHz/ |                          |                 |                   | Spa                  | an 3 MHz                      |     |

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| Product:          | RC Drone                    |                          | Test Mode:     | Keep tra  | Keep transmitting           |  |  |
|-------------------|-----------------------------|--------------------------|----------------|-----------|-----------------------------|--|--|
| Mode              | Keeping Transmittin         | ng                       | Test Voltage   | D         | C3V                         |  |  |
| Temperature       | 24 deg. C,<br>Pass          |                          | Humidity       | 56%       | 56% RH<br>PK                |  |  |
| Test Result:      |                             |                          | Detector       | ]         |                             |  |  |
| 20dB Bandwidth    | 1.21MHz                     |                          |                |           |                             |  |  |
| R                 | Delta 1 [T1]                | RI                       | 30 k           | Hz RF Att | 20 dB                       |  |  |
| Ref Lvl           | -0.06                       |                          | 3W 100 k       |           |                             |  |  |
| 10 dBm            | 1.21442886                  | 6 MHZ SI                 | NT 8.5 m       | s Unit    | dBm                         |  |  |
| 10                |                             |                          | ▼1             | [T1] -1   | 9.58 dBm A                  |  |  |
|                   |                             | 2<br><b>X</b>            |                | 2.4334    | 9800 GHz                    |  |  |
| 0                 |                             | $\Lambda \wedge \Lambda$ | ▲ <sup>1</sup> | [T1] -    | 0.06 dB                     |  |  |
|                   |                             |                          |                | 1.2144    | 2886 MHz<br>0.21 dBm        |  |  |
| -10               |                             | ∀                        |                |           | <u>(.21 dBm</u><br>1663 GHz |  |  |
|                   |                             |                          |                | 1         |                             |  |  |
| -20 <mark></mark> | dBm                         |                          |                |           |                             |  |  |
| 1MAX              | Jun 1                       |                          |                |           | IMA                         |  |  |
| - 3 0             |                             |                          |                | man       | - Maria                     |  |  |
|                   |                             |                          |                |           |                             |  |  |
|                   |                             |                          |                |           |                             |  |  |
| -50               |                             |                          |                |           |                             |  |  |
| - 6 0             |                             |                          |                |           | +                           |  |  |
| - 7 0             |                             |                          |                |           | <b></b>                     |  |  |
|                   |                             |                          |                |           |                             |  |  |
| - 8 0             |                             |                          |                |           |                             |  |  |
| -90<br>Center 2.4 | 34 GHz                      | 300 kHz/                 |                | Sn        | an 3 MHz                    |  |  |
|                   | 34 GHz<br>MAY.2016 17:53:33 | 300 kHz/                 |                | Sp        | an 3 MHz                    |  |  |

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| Product:       | RC Drone             |           | Test Mode:    | Keep transmitting                        |       |  |
|----------------|----------------------|-----------|---------------|--|-------|--|
| Mode           | Keeping Transmitting |           | Test Voltage  | DC3V                                     |       |  |
| Temperature    | 24 deg. C,           |           | Humidity      | 56% RH                                   |       |  |
| Test Result:   | Pass                 |           | Detector      | РК                                       |       |  |
| 20dB Bandwidth | 1.09MHz              |           |               |  |       |  |
|                | Marker 1 [T1 no      | dB] F     | ABW 30 kH     | Iz RFAtt 20                              | ) dB  |  |
| Ref Lvl        |                      |           | 7BW 100 kH    |  | _     |  |
| 10 dBm         | BW 1.0941883         | 38 MHz S  | SWT 8.5 ms    | s Unit                                   | dBm   |  |
|                |                      |           | <b>v</b> 1    | [T1] 1.05                                | dBm A |  |
|                |                      | 1         |               | 2.46585872                               | GHz   |  |
| 0              |                      | $\Lambda$ | ndB           | 20.00                                    | dB    |  |
|                |                      |           |               | 1.09418838                               |       |  |
| -10            |                      | <u> </u>  |               |  | dBm   |  |
|                | Τ                    |           | $\nabla_{T2}$ | 2.46554609<br>[ <sup>2</sup> [T1] -19.46 |       |  |
| -20            |                      |           | ± 4 1         | 2.46664028                               |       |  |
| 1MAX           |                      |           |               |  | 1MA   |  |
| - 3 0          |                      |           |               | human                                    |       |  |
|                |                      |           |               |  |       |  |
| -40            | Ń                    |           |               |  |       |  |
| -50            |                      |           |               |  |       |  |
| - 6 0          |                      |           |               |  |       |  |
| - 7 0          |                      |           |               |  |       |  |
| - 8 0          |                      |           |               |  |       |  |
| -90            |                      |           |               |  |       |  |
| Center 2.460   | 6 GHz                | 300 kHz/  |               | Span 3                                   | MHz   |  |
| Date: 30.MA    | AY.2016 17:07:56     |           |               |  |       |  |

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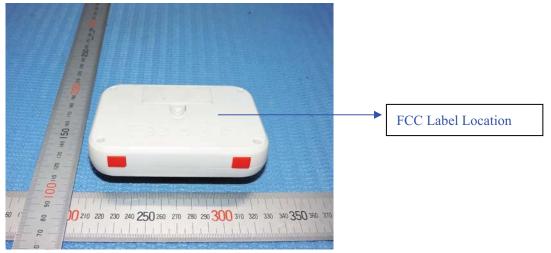
### 10.0 FCC ID Label

## FCC ID: 2AGZ8VOLAR360

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



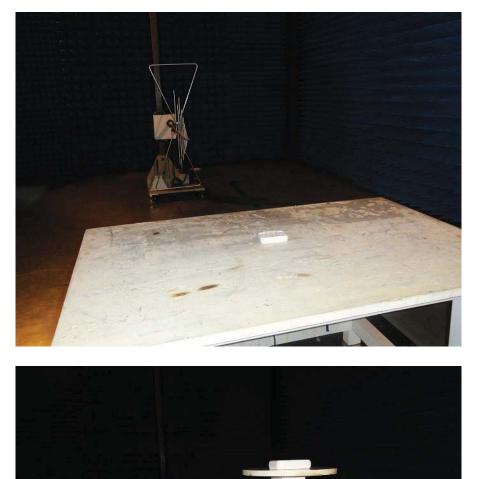
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### 11.0 Photo of testing

- 11.1 Conducted test View--N/A
- 11.2 Radiated emission test view



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#### 11.3 Photographs - EUT

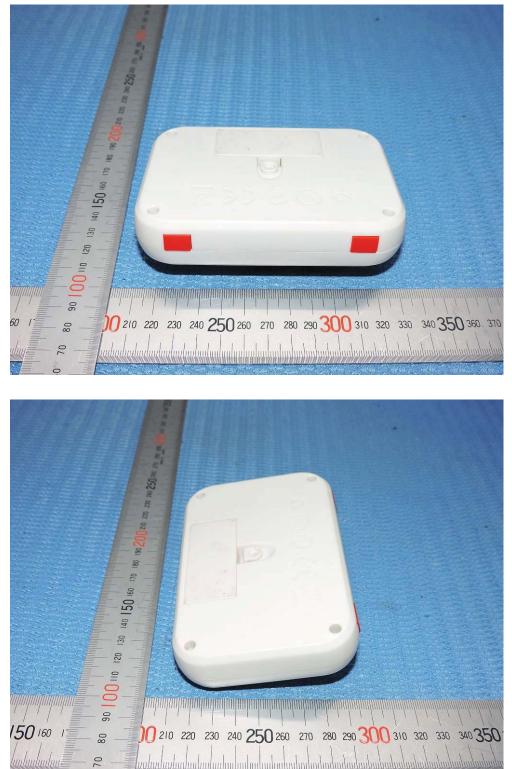




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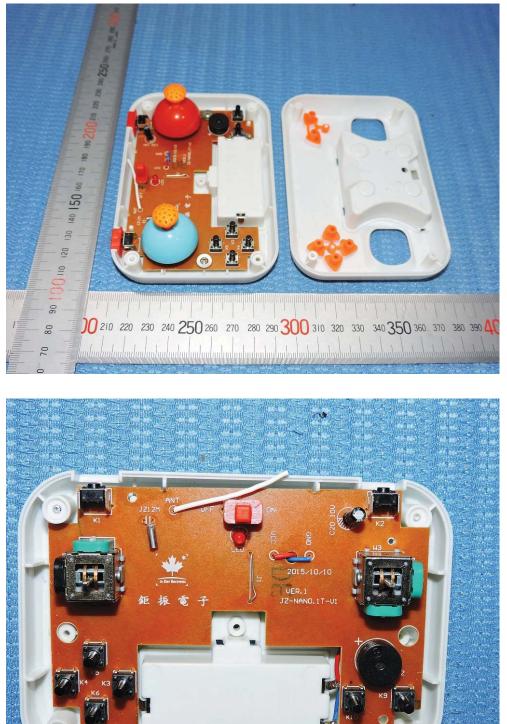
Outside view



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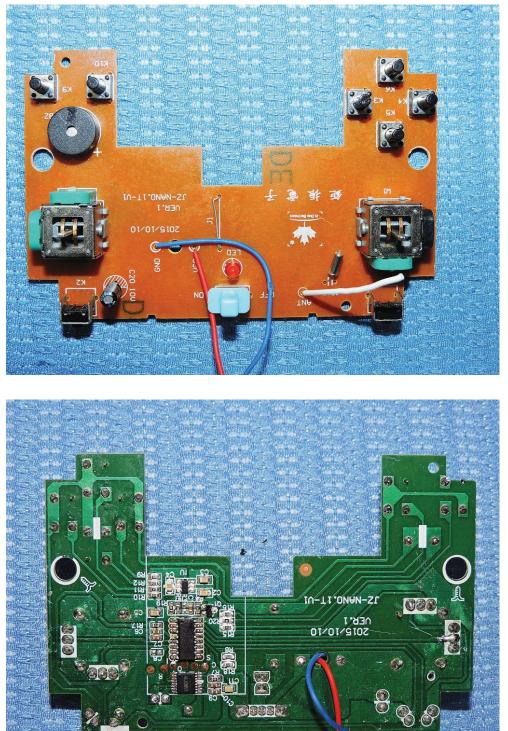
Inside view



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Inside view



--End of the report--

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