CMA Testing and Certification Laboratories

## 廠商會檢定中心

## TEST REPORT

| Report No． | AU0038623（0）Date： 30 Jun 2016 |
| :---: | :---: |
| Application No． | LU020813（3） |
| Applicant | Zego Electronic Company Limited（Shenzhen Yangri Electronic Ltd） Room 703，Kowloon Building， <br> 555 Nathan Road，Kowloon，HK |
| Sample Description | One（1）item of submitted sample stated to be Controller of Flip Flop Drone of Model No． 6001438 <br> Sample registration No．：RU023238－007 <br> Radio Frequency $: 2402 \mathrm{MHz}-2475 \mathrm{MHz}$ Transceiver <br> Rating <br> ： $4 \times 1.5 \mathrm{~V}$ AAA size batteries <br> No．of submitted sample ：Two（2）set（s） |
| Date Received | 02 Jun 2016 |
| Test Period | 07 Jun 2016 to 09 Jun 2016 |
| Test Requested | FCC Part 15 Certificate |
| Test Method | 47 CFR Part 15 （10－1－15 Edition） <br> ANSI C63．4－2014，ANSI C63．10－2013 |
| Test Engineer | Mr．LEUNG Shu－kan，Ken |
| Test Result | See attached sheet（s）from page 2 to 28. |
| Conclusion | The submitted sample was found to comply with requirement of FCC Part 15 Subpart B and C． |

Authorized Signature ：


FCC ID：2ACS612TX

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## 1 General Information

## 1．1 General Description

The equipment under test（EUT）is a controller for Flip Flop Drone．The EUT is power by $4 \times 1.5 \mathrm{~V}$ AAA size batteries．It operates at $2402 \mathrm{MHz}-2475 \mathrm{MHz}$ ．There are buttons and joysticks on the EUT． When the buttons are pressed or the joysticks are moved，the EUT will transmit radio control signal to receiver．

The brief circuit description is listed as follows：
－U3 and its associated circuit act as MCU
－U1（module）
－U1
－Y1
－S1，S2，S3，S4，S5，S6，S7，S9， VR1，VR2 and its associated circuit act as RF circuit and its associated circuit act as power supply circuit and its associated circuit act as oscillator and its associated circuit act as copter control

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## 1．2 Location of the test site

FCC Registered Test Site Number： 552221

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63．10－ 2013．A Semi－Anechoic Chamber Testing Site is set up for investigation and located at：

Ground Floor，Yan Hing Centre，<br>9 － 13 Wong Chuk Yeung Street， Fo Tan，Shatin， New Territories， Hong Kong．

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63．10－2013．A shielded room is located at ：

Ground Floor，Yan Hing Centre，<br>9－13 Wong Chuk Yeung Street，<br>Fo Tan，Shatin，<br>New Territories，<br>Hong Kong．

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## 1．3 List of measuring equipment

| Equipment | Manufacturer | Model No． | Serial No． | Calibration Due Date | Calibration Period |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EMI Test Receiver | R\＆S | ESCI | 100152 | 27 Sep 2016 | 1Year |
| Spectrum Analyzer | R\＆S | FSV40 | 100628 | 09 Feb 2017 | 1Year |
| Broadband Antenna | Schaffner | CBL6112B | 2718 | 15 Mar 2017 | 2Years |
| Loop Antenna | EMCO | 6502 | 00056620 | 25 Jan 2018 | 2Years |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D－531 | 24 Nov 2016 | 2Years |
| Broadband Pre－Amplifier | Schwarzbeck | BBV 9718 | $9718-119$ | 24 Nov 2016 | 2Years |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170442 | 02 Aug 2017 | 2Years |
| Broadband Pre－Amplifier | Schwarzbeck | BBV 9719 | $9719-010$ | 02 Aug 2017 | 2Years |
| Coaxial Cable | Schaffner | RG 213／U | N／A | 18 May 2017 | 1Years |
| Coaxial Cable | Suhner | RG 214／U | N／A | 18 May 2017 | 1Years |
| Coaxial Cable | Suhner | Sucoflex＿104 | N／A | 13 Dec 2016 | 1Years |

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## 1．4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $\mathrm{k}=2$ ， providing a level of confidence of approximately $95 \%$ ．

Radiated emissions

| Frequency | Uncertainty $\left(\mathrm{U}_{\text {lab }}\right)$ |
| :---: | :---: |
| $30 \mathrm{MHz} \sim 200 \mathrm{MHz}$（Horizontal） | 4.83 dB |
| $30 \mathrm{MHz} \sim 200 \mathrm{MHz}$（Vertical） | 4.84 dB |
| $200 \mathrm{MHz} \sim 1000 \mathrm{MHz}$（Horizontal） | 4.87 dB |
| $200 \mathrm{MHz} \sim 1000 \mathrm{MHz}$（Vertical） | 5.94 dB |
| $1 \mathrm{GHz} \sim 6 \mathrm{GHz}$ | 4.41 dB |
| $6 \mathrm{GHz} \sim 18 \mathrm{GHz}$ | 4.64 dB |

Conducted emissions

| Frequency | Uncertainty $\left(\mathrm{U}_{\text {lab }}\right)$ |
| :---: | :---: |
| $150 \mathrm{kHz} \sim 30 \mathrm{MHz}$ | 2.64 dB |

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## 2 Description of the radiated emission test

## 2．1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63．10－ 2013.

The equipment under test（EUT）was placed on a non－conductive turntable with dimensions of 1.5 m x 1 m and 0.8 m high above the ground． 3 m from the EUT，a broadband antenna mounting on the mast received the signal strength．The turntable was rotated to maximize the emission level．The antenna was then moving along the mast from 1 m up to 4 m until no more higher value was found． Both horizontal and vertical polarization of the antenna were placed and investigated．

For below 30 MHz ，a loop antenna with its vertical plane is placed 3 m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT．And the centre of the loop shall be 1 m above the ground．

For 30 MHz to 1 GHz ，broadband antenna with its vertical and horizontal plane is placed 3 m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT．And the reference point of antenna shall be 1 m above the ground．

For above 1 GHz ，horn antenna with its vertical and horizontal plane is placed 3 m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT． Preamplifier and High Pass filter was used for measurements．The reference point of antenna shall be 1 m above the ground．

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement．

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## 2．2 Test Result

Subpart C：
Peak Detector data were measured unless otherwise stated．
＂\＃＂means emissions appear within the restricted bands shall follow the requirement of section 15.205 ．

The Frequencies from fundamental up to tenth harmonics were investigated，and emissions more 20 dB below limited were not reported．Thus，those higher emissions were presented in next page （section 2．3）．

Subpart B：
Quasi－Peak Detector data were measured unless otherwise stated．
＂\＃＂means emissions appear within the restricted bands shall follow the requirement of section 15.205 ．

The emissions meet the requirement of section 15.109 are based on measurements employing the CISPR quasi－peak detector below 1000 MHz and average detector for frequencies above 1000 MHz ．

The frequencies from 30 MHz to 1000 MHz were investigated，and emissions more 20 dB below limit were not reported．Thus，those highest emissions were presented in next page（section 2．3）．

It was found that the EUT meet the FCC requirement．

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## 2．3 Radiated Emission Measurement Data

## Radiated emission

pursuant to

## the requirement of FCC Part 15 subpart C

Environmental conditions：

| Parameter |
| :--- |
| Ambient temperature： |
| Relative humidity： |

Recorded value

| 26 | ${ }^{\circ} \mathrm{C}$ |
| :--- | :--- |
| 65 | $\%$ |

Measurement：Peak RBW： 1 MHz VBW： 3 MHz Operation mode：Transmission
Testing frequency range： 9 kHz to 25 GHz

| Frequency <br> $(\mathrm{MHz})$ | Polarity <br> $(\mathrm{H} / \mathrm{V})$ | Reading <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V})$ | Transducer <br> Factor <br> $(\mathrm{dB} / \mathrm{m})$ | Field Strength <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V} / \mathrm{m})$ | Limit at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V} / \mathrm{m})$ | Margin <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2402.211 | H | 94.9 | -4.2 | 90.7 | 114.0 | -23.3 |
| $\# 4803.424$ | H | 54.6 | 3.7 | 58.3 | 74.0 | -15.7 |
| 7205.131 | H | 43.7 | 11.5 | 55.2 | 74.0 | -18.8 |
| 7205.250 | V | 43.2 | 11.5 | 54.7 | 74.0 | -19.3 |


| 2433.194 | H | 92.4 | -4.2 | 88.2 | 114.0 | -25.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\# 4865.912$ | V | 51.3 | 3.7 | 55.0 | 74.0 | -19.0 |
| $\# 7229.195$ | V | 44.1 | 11.5 | 55.6 | 74.0 | -18.4 |
| $\# 7229.618$ | H | 45.0 | 11.5 | 56.5 | 74.0 | -17.5 |


| 2475.217 | H | 95.5 | -4.3 | 91.2 | 114.0 | -22.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\# 4950.377$ | V | 52.8 | 4.0 | 56.8 | 74.0 | -17.2 |
| $\# 7425.626$ | H | 44.1 | 11.5 | 55.6 | 74.0 | -18.4 |
| $\# 7425.637$ | V | 42.9 | 11.5 | 54.4 | 74.0 | -19.6 |

Remark：Other emissions more than 20 dB below the limit are not reported．

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## 2．3 Radiated Emission Measurement Data（Con＇t）

## Radiated emission

## pursuant to

## the requirement of FCC Part 15 subpart $C$

Environmental conditions：

| Parameter |
| :--- |
| Ambient temperature： |
| Relative humidity： |

Recorded value

| 26 | ${ }^{\circ} \mathrm{C}$ |
| :--- | :--- |
| 65 | $\%$ |

Measurement：Average RBW：1MHz VBW：10Hz Operation mode：Transmission
Testing frequency range： 9 kHz to 25 GHz

| Frequency <br> $(\mathrm{MHz})$ | Polarity <br> $(\mathrm{H} / \mathrm{V})$ | Reading <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V})$ | Transducer <br> Factor <br> $(\mathrm{dB} / \mathrm{m})$ | Field Strength <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V} / \mathrm{m})$ | Limit at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V} / \mathrm{m})$ | Margin <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2401.857 | H | 29.6 | -4.2 | 25.4 | 94.0 | -68.6 |
| $\# 4803.864$ | H | 24.4 | 3.7 | 28.1 | 54.0 | -25.9 |
| 7206.340 | V | 21.0 | 11.5 | 32.5 | 54.0 | -21.5 |
| 7206.510 | H | 21.1 | 11.5 | 32.6 | 54.0 | -21.4 |


| 2432.905 | H | 29.2 | -4.2 | 25.0 | 94.0 | -69.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\# 4865.822$ | V | 24.3 | 3.7 | 28.0 | 54.0 | -26.0 |
| $\# 7299.280$ | H | 21.6 | 11.5 | 33.1 | 54.0 | -20.9 |
| $\# 7299.375$ | V | 21.7 | 11.5 | 33.2 | 54.0 | -20.8 |


| 2475.015 | H | 29.4 | -4.3 | 25.1 | 94.0 | -68.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\# 4949.968$ | V | 24.5 | 4.0 | 28.5 | 54.0 | -25.5 |
| $\# 7425.333$ | H | 21.6 | 11.5 | 33.1 | 54.0 | -20.9 |
| $\# 7425.385$ | V | 21.3 | 11.5 | 32.8 | 54.0 | -21.2 |

Remark：Other emissions more than 20 dB below the limit are not reported．

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## 2．3 Radiated Emission Measurement Data（Con＇t）

## Radiated emission

## pursuant to

## the requirement of FCC Part 15 subpart C

Environmental conditions：

| Parameter |
| :--- |
| Ambient temperature： |
| Relative humidity： |

Recorded value
$26 \quad{ }^{\circ} \mathrm{C}$

Detector：Quasi－peak
RBW： 120 kHz
VBW：300kHz
Testing frequency range： 9 kHz to $25 \mathrm{GHz} \quad$ Operation mode：Transmission

| Frequency <br> $(\mathrm{MHz})$ | Polarity <br> $(\mathrm{H} / \mathrm{V})$ | Reading <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V})$ | Antenna Factor <br> and Cable Loss <br> $(\mathrm{dB} / \mathrm{m})$ | Field Strength <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V} / \mathrm{m})$ | Limit at 3m <br> $(\mathrm{dB} \mu \mathrm{V} / \mathrm{m})$ | Margin <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 71.049 | H | 8.1 | 8.0 | 16.1 | 40.0 | -23.9 |
| 104.509 | H | 8.8 | 12.2 | 21.0 | 43.5 | -22.5 |
| 161.513 | H | 8.2 | 11.9 | 20.1 | 43.5 | -23.4 |
| 207.514 | H | 8.2 | 12.0 | 20.2 | 43.5 | -23.3 |
| 244.832 | H | 10.0 | 13.2 | 23.2 | 46.0 | -22.8 |
| 282.085 | H | 9.0 | 15.4 | 24.4 | 46.0 | -21.6 |
| 316.901 | H | 8.5 | 16.8 | 25.3 | 46.0 | -20.7 |

Remark：Other emissions more than 20 dB below the limit are not reported．

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## 2．3 Radiated Emission Measurement Data（Con＇t）

## Radiated emission

## pursuant to

## the requirement of FCC Part 15 subpart B

Environmental conditions：

| Parameter |
| :--- |
| Ambient temperature： |
| Relative humidity： |

Recorded value
$26 \quad{ }^{\circ} \mathrm{C}$

Detector：Quasi－peak
RBW： 120 kHz
VBW：300kHz
Testing frequency range： 9 kHz to $25 \mathrm{GHz} \quad$ Operation mode：Receiving

| Frequency <br> $(\mathrm{MHz})$ | Polarity <br> $(\mathrm{H} / \mathrm{V})$ | Reading <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V})$ | Antenna Factor <br> and Cable Loss <br> $(\mathrm{dB} / \mathrm{m})$ | Field Strength <br> at 3 m <br> $(\mathrm{~dB} \mu \mathrm{~V} / \mathrm{m})$ | Limit at 3m <br> $(\mathrm{dB} \mu \mathrm{V} / \mathrm{m})$ | Margin <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 67.955 | H | 8.3 | 7.6 | 15.9 | 40.0 | -24.1 |
| 100.170 | H | 8.3 | 12.0 | 20.3 | 43.5 | -23.2 |
| 156.118 | H | 6.5 | 14.1 | 20.6 | 43.5 | -22.9 |
| 205.025 | H | 8.4 | 12.0 | 20.4 | 43.5 | -23.1 |
| 249.687 | H | 10.5 | 13.2 | 23.7 | 46.0 | -22.3 |
| 280.395 | H | 8.9 | 15.4 | 24.3 | 46.0 | -21.7 |
| 318.610 | H | 8.6 | 16.8 | 25.4 | 46.0 | -20.6 |

Remark：Other emissions more than 20 dB below the limit are not reported．

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## 3 Description of the Line－conducted Test

## 3．1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63．10－2013．The EUT was setup as described in the procedures，and both lines were measured．

## 3．2 Test Result

No measurement is required as the EUT is a battery－operated product．

## 3．3 Graph and Table of Conducted Emission Measurement Data

Not Applicable

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## 4 Photograph

4．1 Photographs of the Test Setup for Radiated Emission and Conducted Emission
For electronic filing，the photos are saved with filename 2ACS612TX TSup．pdf．

## 4．2 Photographs of the External and Internal Configurations of the EUT

For electronic filing，the photos are saved with filename 2ACS612TX ExPho．pdf and 2ACS612TX InPho．pdf．

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## 5 Supplementary document

The following document were submitted by applicant，and for electronic filing，the document are saved with the following filenames：

| Document | Filename |
| :---: | :---: |
| ID Label／Location | LabelSmp．jpg |
| Block Diagram | BlkDia．pdf |
| Schematic Diagram | Schem．pdf |
| Users Manual | UserMan．pdf |
| Operational Description | OpDes．pdf |

## 5．1 Bandwidth

The plot in Appendices A6 shows the fundamental emission is confined in the specified band．It shows the 20 dB bandwidth met the 15.215 requirement for frequency band 2400 to 2483.5 MHz ．

The plot in Appendices A5 shows the band edge is fulfil 15.209 requirement．

## 5．2 Antenna requirement

Appendices A4 shows the antenna is permanently attached and cannot be changed．Therefore it fulfils the section 15.203 requirement

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## 6 Appendices

| A1 | Photos of the set－up of Radiated Emissions | 3 | pages |
| :--- | :--- | :--- | :--- |
| A2 | Photos of External Configurations | 2 | pages |
| A3 | Photos of Internal Configurations | 2 | pages |
| A4 | ID Label／Location | 1 | page |
| A5 | Band Edge | 2 | pages |
| A6 | 20dB Bandwidth Plot | 2 | pages |

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## A1．Photos of the set－up of Radiated Emissions


（Front view， $30 \mathrm{MHz}-1 \mathrm{GHz}$ ）

（Back view， $30 \mathrm{MHz}-1 \mathrm{GHz}$ ）

Tested by：



Mr．WONG Lap－pong，Andrew

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## A1．Photos of the set－up of Radiated Emissions


（Front view， $9 \mathrm{KHz}-30 \mathrm{MHz}$ ）

（Back view， $9 \mathrm{KHz}-30 \mathrm{MHz}$ ）

Tested by：



Mr．WONG Lap－pong，Andrew


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A1．Photos of the set－up of Radiated Emissions

（front view， $1 \mathrm{GHz}-25 \mathrm{GHz}$ ）

（rear view， $1 \mathrm{GHz}-25 \mathrm{GHz}$ ）

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew

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## A2．Photos of External Configuration



External Configuration 1


External Configuration 2

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew

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## A2．Photos of External Configuration



External Configuration 3


External Configuration 4

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew


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30 Jun 2016

## A3．Photos of Internal Configuration



Internal Configuration 1


Internal Configuration 2

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew


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## A3．Photos of Internal Configuration



Internal Configuration 3


Internal Configuration 4

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew


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Report No．

A4．ID Label／Location


ID Label 1


ID Label 2

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew

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## A5．Band Edge



Lower edge（Peak measurement）


Lower edge（Average measurement）

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew

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## A5．Band Edge



Upper edge（Peak measurement）


Upper edge（Average measurement）

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew

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A6．20dB Bandwidth Plot


Bandwidth 1 （2402MHz）


Bandwidth 2 （ 2433 MHz ）

Tested by：


Mr．LEUNG Shu－kan，Ken

Reviewed by：


Mr．WONG Lap－pong，Andrew

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A6．20dB Bandwidth Plot


Bandwidth 3 （ 2475 MHz ）
＊＊＊＊＊End of Report＊＊＊＊＊


Mr．LEUNG Shu－kan，Ken


Mr．WONG Lap－pong，Andrew

