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Report No.: SZEM150200085502  
Page : 1 of 6

## **SAR Evaluation Report**

**Application No.:** SZEM1502000855ET(SGS SZ No.:T51510170049EM)  
**Applicant:** Guangdong Alpha Animation and Culture Co., Ltd.  
**Product Name:** Fly 'Em Fast! Jett  
**Model No.(EUT):** YW710710  
**Add Model No.:** US710005, CA710005, US710710, CA710710  
**Product Description:** Super Wings Remote Control Jett  
**FCC ID:** VVAYW710710  
**Standards:** 47 CFR Part 1.1307 (2014)  
47 CFR Part 2.1093 (2014)  
KDB447498D01 General RF Exposure Guidance v05r02  
**Date of Receipt:** 2015-02-25  
**Date of Test:** 2015-03-05 to 2015-04-16  
**Date of Issue:** 2015-11-16

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>PASS*</b> |
|----------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang  
EMC Laboratory Manager

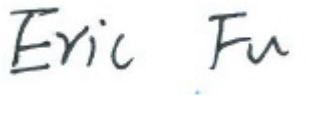
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## 2 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 00              |         | 2015-11-16 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                                                                                                                     |            |
|--------------------------|--|---------------------------------------------------------------------------------------------------------------------|------------|
| Authorized for issue by: |  |                                                                                                                     |            |
| Tested By                |  | <br>(Bill Chen) /Project Engineer | 2015-04-16 |
|                          |  |                                                                                                                     | Date       |
| Prepared By              |  | <br>(Vivi Zhou) /Clerk           | 2015-11-16 |
|                          |  |                                                                                                                     | Date       |
| Checked By               |  | <br>(Eric Fu) /Reviewer          | 2015-11-16 |
|                          |  |                                                                                                                     | Date       |



### 3 Contents

|                                                       | Page |
|-------------------------------------------------------|------|
| 1 COVER PAGE.....                                     | 1    |
| 2 VERSION .....                                       | 2    |
| 3 CONTENTS .....                                      | 3    |
| 4 GENERAL INFORMATION.....                            | 4    |
| 4.1 CLIENT INFORMATION.....                           | 4    |
| 4.2 GENERAL DESCRIPTION OF EUT .....                  | 4    |
| 4.3 TEST LOCATION .....                               | 5    |
| 4.4 TEST FACILITY .....                               | 5    |
| 4.5 DEVIATION FROM STANDARDS.....                     | 5    |
| 4.6 ABNORMALITIES FROM STANDARD CONDITIONS .....      | 5    |
| 4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER ..... | 5    |
| 5 SAR EVALUATION .....                                | 6    |
| 5.1 RF EXPOSURE COMPLIANCE REQUIREMENT .....          | 6    |
| 5.1.1 <i>Standard Requirement</i> .....               | 6    |
| 5.1.2 <i>Limits</i> .....                             | 6    |
| 5.1.3 <i>EUT RF Exposure</i> .....                    | 6    |



## 4 General Information

### 4.1 Client Information

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Applicant:            | Guangdong Alpha Animation and Culture Co., Ltd.                         |
| Address of Applicant: | Auldey Industrial Area, Wenguan Rd, Chenghai, Shantou, Guangdong, China |

### 4.2 General Description of EUT

|                         |                         |
|-------------------------|-------------------------|
| Product Name:           | Fly 'Em Fast! Jett      |
| Model No.:              | YW710710                |
| EUT Function:           | Fly 'Em Fast! Jett      |
| Operation Frequency:    | 27.145MHz               |
| Modulation Type:        | AM                      |
| Channel Number:         | 1                       |
| Antenna Type:           | Integral                |
| Country of Origin:      | China                   |
| Country of Destination: | EU AND US               |
| Request Age Grading     | 3+                      |
| Power Supply:           | Tx: DC 2*1.5V(AAA)=3.0V |

Remark:

Model No.: YW710710, US710005, CA710005, US710710, CA710710

Only the model YW710710 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.



### 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 4.4 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

• **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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.: 556682.

• **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

### 4.5 Deviation from Standards

None.

### 4.6 Abnormalities from Standard Conditions

None.

### 4.7 Other Information Requested by the Customer

None.



## **5 SAR Evaluation**

### **5.1 RF Exposure Compliance Requirement**

#### **5.1.1 Standard Requirement**

According to KDB447498D01 General RF Exposure Guidance v05r02

##### **4.3.1. Standalone SAR test exclusion considerations**

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **5.1.2 Limits**

At frequencies below 100 MHz, the following may be considered for SAR test exclusion:

- a) The power threshold at the corresponding test separation distance at 100 MHz in below step 1) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm
- b) The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.

1)  $[\text{Power allowed at numeric threshold for } 50 \text{ mm in step 1)} + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$ , at 100 MHz to 1500 MHz

#### **5.1.3 EUT RF Exposure**

The maximum conducted output power specified is  $-31.43\text{dBm} = 0.0007\text{mW}$

The source- based time-averaging conducted output power

$$= 0.0007 * \text{Duty Cycle mW} = 0.0004\text{mW}$$

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is  $< 50\text{mm}$ :

$$= 474 * [1 + \log(100/f(\text{MHz}))]/2$$

$$= 371.2 \text{ mW}$$

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.