# **FCC Test Report**

Report No.: AGC00056170301FE03

FCC ID : 2AL7Y-BABYHAWK

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Babyhawk-85mm Brushless Drone

**BRAND NAME** : N/A

MODEL NAME : Babyhawk

**CLIENT**: Dongguan Yinyan Electric Tech. Ltd.

**DATE OF ISSUE** : Jun. 11, 2017

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Rules

**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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## **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 11, 2017	Valid	Original Report

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#### 1. VERIFICATION OF CONFORMITY

Applicant	Dongguan Yinyan Electric Tech. Ltd.
Address	EMAX Industrial Park, Gao-Long Industrial Zone, Huanzhuli Village, Changpin Town, Dongguan, Guangdong Province, China
Manufacturer	Dongguan Yinyan Electric Tech. Ltd.
Address	EMAX Industrial Park, Gao-Long Industrial Zone, Huanzhuli Village, Changpin Town, Dongguan, Guangdong Province, China
Product Designation	Babyhawk-85mm Brushless Drone
Brand Name	N/A
Test Model	Babyhawk
Date of test	Jun. 06, 2017 to Jun. 11, 2017
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Tested by

Steven Zhou (Zhou Pengyun) Jun, 02,2017

Reviewed by

Bart Xie(Xie Xiaobin) Jun, 02,2017

Approved by

Solger Zhang(Zhang Hongyi) Authorized Officer Jun, 02,2017

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	5.732 GHz to 5.847GHz
Maximum field strength	90.53dBuV/m(AV)@3m
Modulation	FM
Number of channels	24
Antenna Gain	2dBi
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 7.4V 300mAh by battery

## 2.2. TABLE OF CARRIER FREQUENCY

BAND/CH					С	Н			
		CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
	FR1(F)	5740	5760	5780	5800	5820	5840		
BAN	FR2(R)			5732	5769	5806	5843		
B	FR3(A)		5845	5825	5805	5785	5765	5745	5725
	FR4(B)	5733	5752	5771	5790	5809	5828	5847	

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#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %  $\circ$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions,radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±2%

#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel
2	Middle channel
3	High channel

#### Note:

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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## **5. SYSTEM TEST CONFIGURATION**

## **5.1. CONFIGURATION OF EUT SYSTEM**

Configure:

EUT

#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1	Babyhawk-85mm Brushless Drone	Babyhawk	2AL7Y-BABYHAWK	EUT

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant

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## **6. TEST FACILITY**

Site Dongguan Precise Testing Service Co., Ltd.		
Location  Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.		
FCC Registration No.	371540	
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.	

## ALL TEST EQUIPMENT LIST

	Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017	
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017	
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017	
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017	
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 3, 2016	June 2, 2017	
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A	
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 3, 2016	June 2, 2017	
Spectrum analyzer	Agilent	E4407B	MY46185649	June 3, 2016	June 2, 2017	
Power Sensor	Agilent	U2021XA	MY55050474	June 3, 2016	June 2, 2017	
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 3, 2016	June 2, 2017	
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 3, 2016	June 2, 2017	

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#### 7. RADIATED EMISSION

#### 7.1TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics	
	(millivolts/meter)	(microvolts/meter)	
900-928MHz	50	500	
2400-2483.5MHz	50	500	
5725-5875MHz	50	500	
24.0-24.25GHz	250	2500	

#### Standard FCC 15.209

Frequency	Distance	Field Strengths Limit			
(MHz)	Meters	μ V/m	dB(μV)/m		
0.009 ~ 0.490	300	2400/F(kHz)			
0.490 ~ 1.705	30	24000/F(kHz)			
1.705 ~ 30	30	30			
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)			

Remark:

- (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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#### 7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the guasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

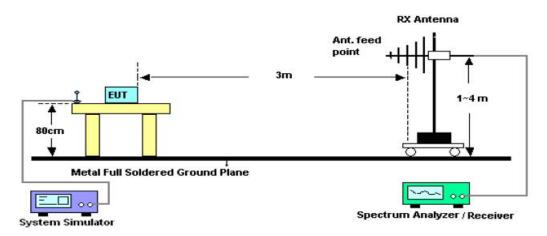
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#### 7.3. TEST SETUP

## Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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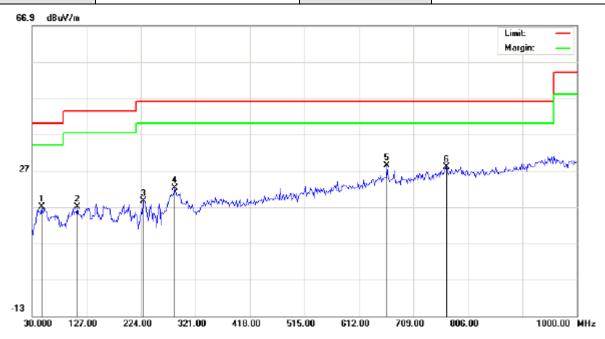
#### 7.4. TEST RESULT

#### **RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

#### **RADIATED EMISSION 30MHz-1GHZ**

EUT:	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		47.7833	5.55	11.39	16.94	40.00	-23.06	peak			
2		110.8333	9.03	7.98	17.01	43.50	-26.49	peak			
3		228.8500	9.52	9.06	18.58	46.00	-27.42	peak			
4		283.8167	9.55	12.66	22.21	46.00	-23.79	peak			
5	*	662.1167	4.31	24.17	28.48	46.00	-17.52	peak		·	
6		767.2000	1.21	26.87	28.08	46.00	-17.92	peak			

**RESULT: PASS** 

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EUT:	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 1	Polarization:	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	8.85	8.51	17.36	40.00	-22.64	peak			
2		131.8500	3.12	11.80	14.92	43.50	-28.58	peak			
3	*	144.7833	13.97	15.23	29.20	43.50	-14.30	peak			
4		236.9333	9.85	12.62	22.47	46.00	-23.53	peak			
5		311.3000	2.83	16.16	18.99	46.00	-27.01	peak			
6		647.5667	3.88	23.80	27.68	46.00	-18.32	peak			

#### **RESULT: PASS**

#### Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

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## **RADIATED EMISSION ABOVE 1GHZ**

<b> -</b>	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
5732.012	90.23	4.42	94.65	114	-19.35	peak
5732.012	84.26	4.42	88.68	94	-5.32	AVG
11464.024	46.51	9.42	55.93	74	-18.07	peak
11464.024	40.28	9.42	49.7	54	-4.3	AVG
17196.036	41.84	10.51	52.35	74	-21.65	peak
17196.036	36.63	10.51	47.14	54	-6.86	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
5732.120	89.28	4.42	93.7	114	-20.3	peak
5732.120	83.69	4.42	88.11	94	-5.89	AVG
11464.240	46.35	9.42	55.77	74	-18.23	peak
11464.240	38.76	9.42	48.18	54	-5.82	AVG
17196.360	42.32	10.51	52.83	74	-21.17	peak
17196.360	37.06	10.51	47.57	54	-6.43	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT:	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
5780.013	90.09	4.67	94.76	114	-19.24	peak
5780.013	85.86	4.67	90.53	94	-3.47	AVG
11560.026	47.32	9.46	56.78	74	-17.22	peak
11560.026	40.85	9.46	50.31	54	-3.69	AVG
17340.039	43.53	10.68	54.21	74	-19.79	peak
17340.039	36.13	10.68	46.81	54	-7.19	AVG
Remark:						
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

ICUI •	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
5780.013	89.95	4.67	94.62	114	-19.38	peak
5780.013	84.86	4.67	89.53	94	-4.47	AVG
11560.026	46.47	9.46	55.93	74	-18.07	peak
11560.026	39.85	9.46	49.31	54	-4.69	AVG
17340.039	42.39	10.68	53.07	74	-20.93	peak
17340.039 38.26 10.68 48.94 54 -5.06 AVG						
Remark:						
actor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

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EUT:	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
5847.016	90.23	4.72	94.95	114	-19.05	peak
5847.016	83.82	4.72	88.54	94	-5.46	AVG
11694.032	47.16	9.68	56.84	74	-17.16	peak
11694.032	40.29	9.68	49.97	54	-4.03	AVG
17541.048	42.53	10.87	53.4	74	-20.6	peak
17541.048	38.57	10.87	49.44	54	-4.56	AVG
Remark:						
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
5847.016	90.62	4.72	95.34	114	-18.66	peak
5847.016	85.39	4.72	90.11	94	-3.89	AVG
11694.032	46.89	9.68	56.57	74	-17.43	peak
11694.032	38.32	9.68	48	54	-6	AVG
17541.048	42.34	10.87	53.21	74	-20.79	peak
17541.048 37.81 10.87 48.68 54 -5.32 AVG						
Remark:						
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.					

**Note:** Other emission from 18G to 40 GHz are considered as ambient noise. No recording in the test report. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The FM modulation was the worst case and only the data of worst recorded in this report.

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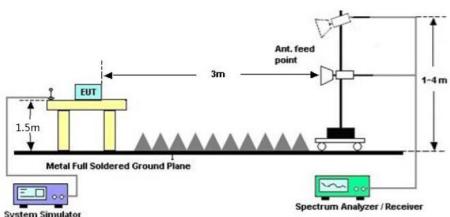
#### 8. BAND EDGE EMISSION

#### **8.1. MEASUREMENT PROCEDURE**

- 1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz; VBW=1/on time(1KHz) / Sweep=AUTO
- 3. Other procedures refer to clause 7.2.

#### **8.2 TEST SETUP**

#### RADIATED EMISSION TEST SETUP



#### **8.3 RADIATED TEST RESULT**

#### Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

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ICUI •	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value



AV Value



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ICUI •	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value



**AV Value** 



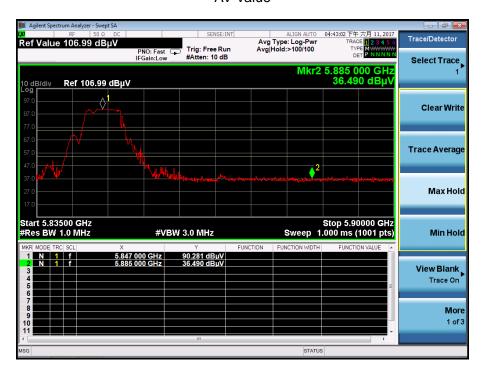
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ICUI •	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value



AV Value



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ICUI •	Babyhawk-85mm Brushless Drone	Model Name. :	Babyhawk
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



**AV Value** 



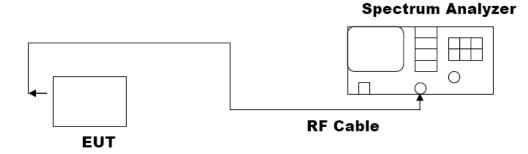
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#### 9. 20DB BANDWIDTH

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
  The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
  bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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#### 9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK for BLE

Test Data (MHz)		Criteria
Low Channel	5.997	PASS
Middle Channel	5.674	PASS
High Channel	6.093	PASS

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



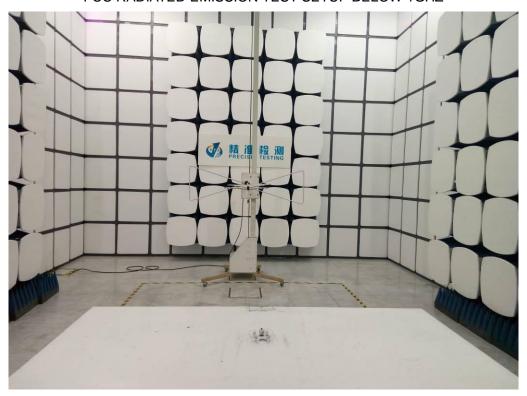
#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



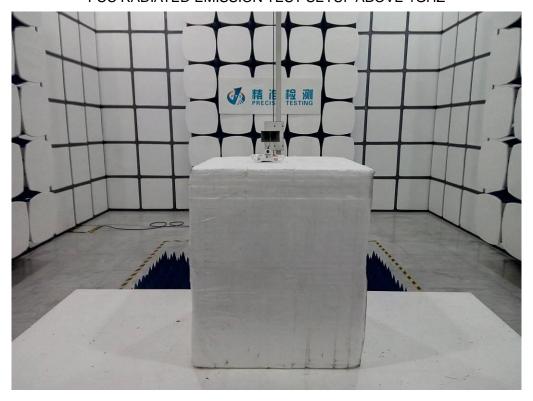
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## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



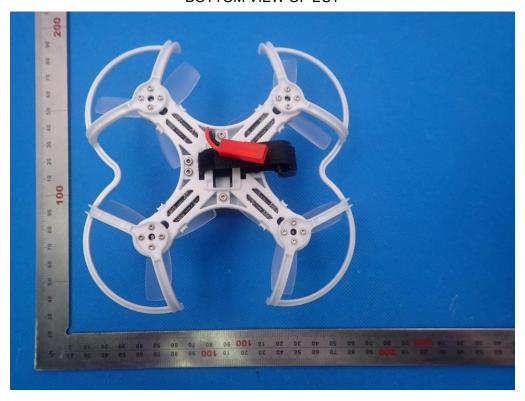
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## **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 

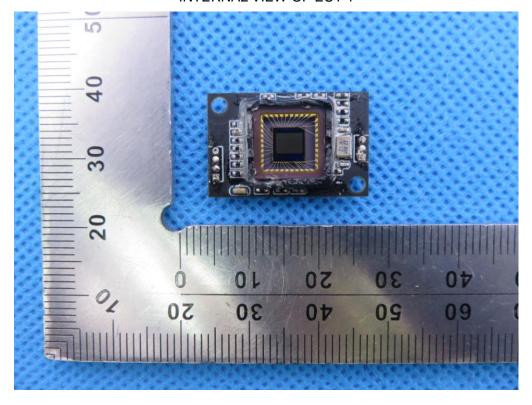


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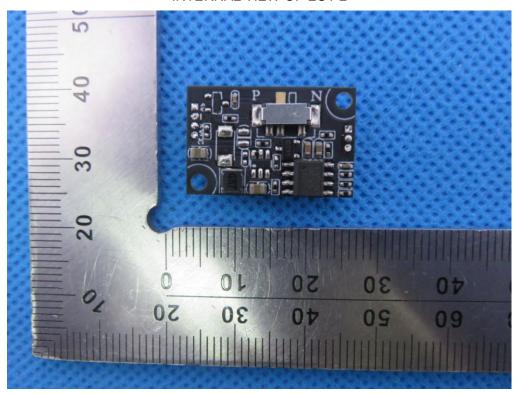
**OPEN VIEW OF EUT** 



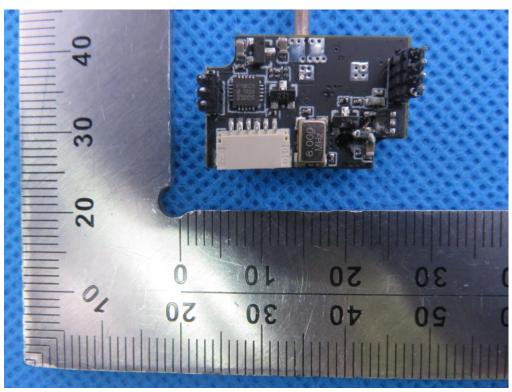
**INTERNAL VIEW OF EUT-1** 



**INTERNAL VIEW OF EUT-2** 

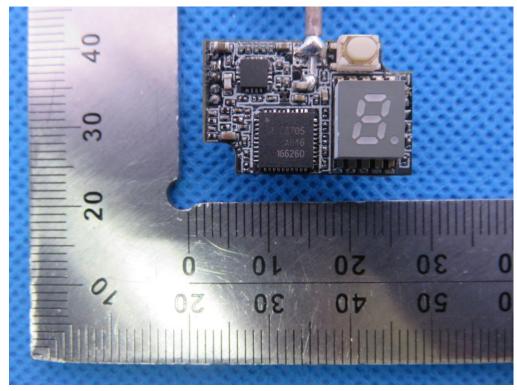


**INTERNAL VIEW OF EUT-3** 

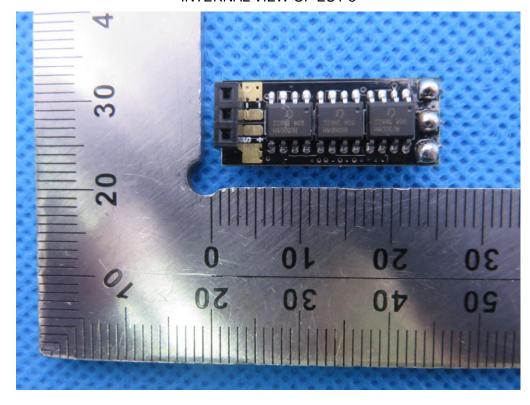


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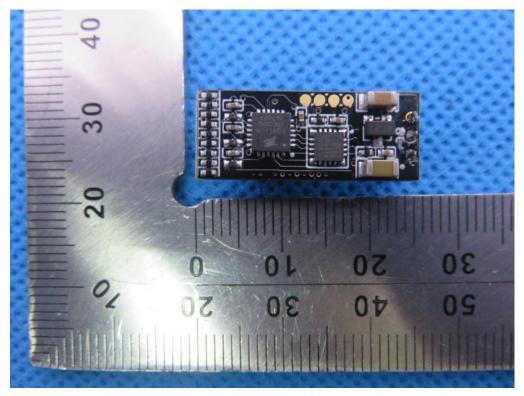
**INTERNAL VIEW OF EUT-4** 



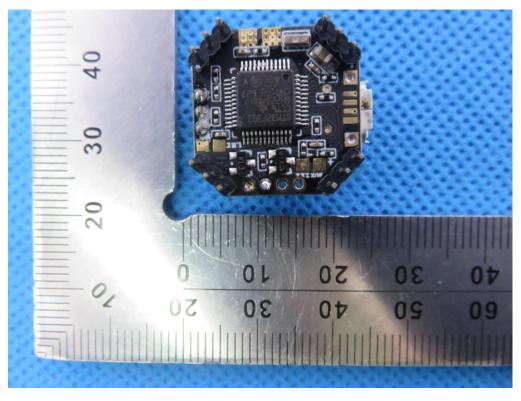
**INTERNAL VIEW OF EUT-5** 



## **INTERNAL VIEW OF EUT-6**

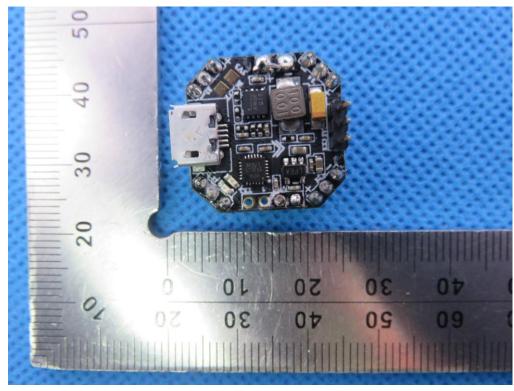


**INTERNAL VIEW OF EUT-7** 



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## **INTERNAL VIEW OF EUT-8**



----END OF REPORT----