

# FCC Test Report

Report No.: AGC07887190402FE03

<b>FCC ID</b>	:	2AJH7S11
<b>APPLICATION PURPOSE</b>	:	Original Equipment
<b>PRODUCT DESIGNATION</b>	:	4 AXIS DRONE
<b>BRAND NAME</b>	:	N/A
<b>MODEL NAME</b>	:	S11, F1, F2, F3, F4, F5, F6, S5, S5H, S5W, S5HW, S6, S6W, S7, S7W, S7G, S8, S8W, S8G, S9, S9H, S9W, S9MW, S9MG, S11W, S12, S12W, S13, S13W, S15, S15W, S17, S17W, S19, S19W, G01, G03, G05, G07, G09, G011, G013, G015, G017, G019
<b>CLIENT</b>	:	HONG DA TOYS FACTORY
<b>DATE OF ISSUE</b>	:	Apr. 23, 2019
<b>STANDARD(S)</b>	:	FCC Part 15 Subpart C Section 15.249
<b>TEST PROCEDURE(S)</b>	:	
<b>REPORT VERSION</b>	:	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	/	Apr. 23, 2019	Valid	Initial Release

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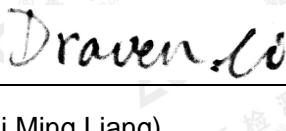
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	HONG DA TOYS FACTORY
<b>Address</b>	GUANGFENG INDUSTRIAL ZONE, DENGFENG ROAD, CHENGHAI, SHANTOU, GUANGDONG, CHINA
<b>Manufacturer</b>	HONG DA TOYS FACTORY
<b>Address</b>	GUANGFENG INDUSTRIAL ZONE, DENGFENG ROAD, CHENGHAI, SHANTOU, GUANGDONG, CHINA
<b>Factory</b>	HONG DA TOYS FACTORY
<b>Address</b>	GUANGFENG INDUSTRIAL ZONE, DENGFENG ROAD, CHENGHAI, SHANTOU, GUANGDONG, CHINA
<b>Product Designation</b>	4 AXIS DRONE
<b>Brand Name</b>	N/A
<b>Test Model</b>	S11
<b>Series Model</b>	F1, F2, F3, F4, F5, F6, S5, S5H, S5W, S5HW, S6, S6W, S7, S7W, S7G, S8, S8W, S8G, S9, S9H, S9W, S9MW, S9MG, S11W, S12, S12W, S13, S13W, S15, S15W, S17, S17W, S19, S19W, G01, G03, G05, G07, G09, G011, G013, G015, G017, G019
<b>Difference description</b>	All the same except for the model name
<b>Date of test</b>	Apr. 17, 2019 to Apr. 23, 2019
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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.

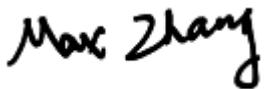
Tested By



Draven Li(Li Ming Liang)

Apr. 23, 2019

Reviewed By



Max Zhang(Zhang Yi)

Apr. 23, 2019

Approved By



Forrest Lei(Lei Yonggang)  
Authorized Officer

Apr. 23, 2019

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2430MHz-2478MHz
<b>Maximum field strength</b>	89.42dBuV/m(average)@3m
<b>Modulation</b>	GFSK
<b>Number of channels</b>	26
<b>Antenna Gain</b>	0dBi
<b>Antenna Designation</b>	Integral Antenna
<b>Hardware Version</b>	HD-HDS11T-V1.0
<b>Software Version</b>	HD-HDS11T-V1.0
<b>Power Supply</b>	DC 3.0V by battery

### 2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Channel Number	Frequency	Channel Number	Frequency
2400~2483.5MHZ	1	2430MHz	14	2463MHz
	2	2444MHz	15	2464MHz
	3	2445MHz	16	2465MHz
	4	2446MHz	17	2466MHz
	5	2447MHz	18	2468MHz
	6	2449MHz	19	2470MHz
	7	2450MHz	20	2472MHz
	8	2453MHz	21	2473MHz
	9	2454MHz	22	2474MHz
	10	2455MHz	23	2475MHz
	11	2456MHz	24	2476MHz
	12	2459MHz	25	2477MHz
	13	2460MHz	26	2478MHz

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### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8 \text{ dB}$

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**4. DESCRIPTION OF TEST MODES**

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

**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



### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	4 AXIS DRONE	S11	2AJH7S11	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
§15.207	Conducted Emission	N/A

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

## TEST EQUIPMENT OF RADIATED EMISSION TEST

<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>S/N</b>	<b>Cal. Date</b>	<b>Cal. Due</b>
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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## 7. RADIATED EMISSION

### 7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (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 (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/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( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/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 minimum resolution bandwidth of 1 MHz. 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 quasi-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 RBW 3MHz/ VBW 10MHz for Peak, RBW 3MHz/10Hz for Average

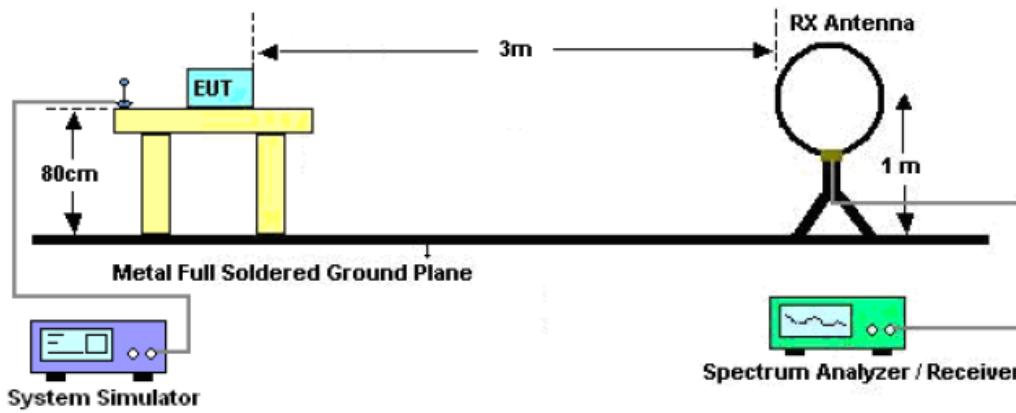
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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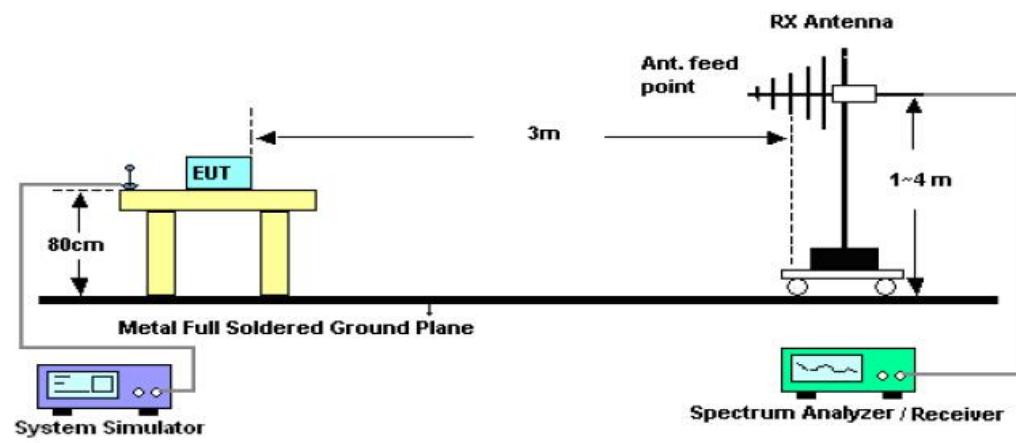


### 7.3. TEST SETUP

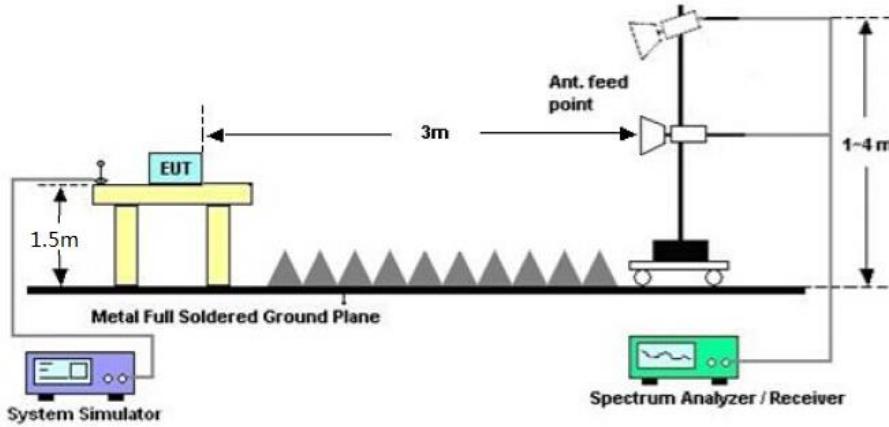
#### Radiated Emission Test-Setup Frequency Below 30MHz



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



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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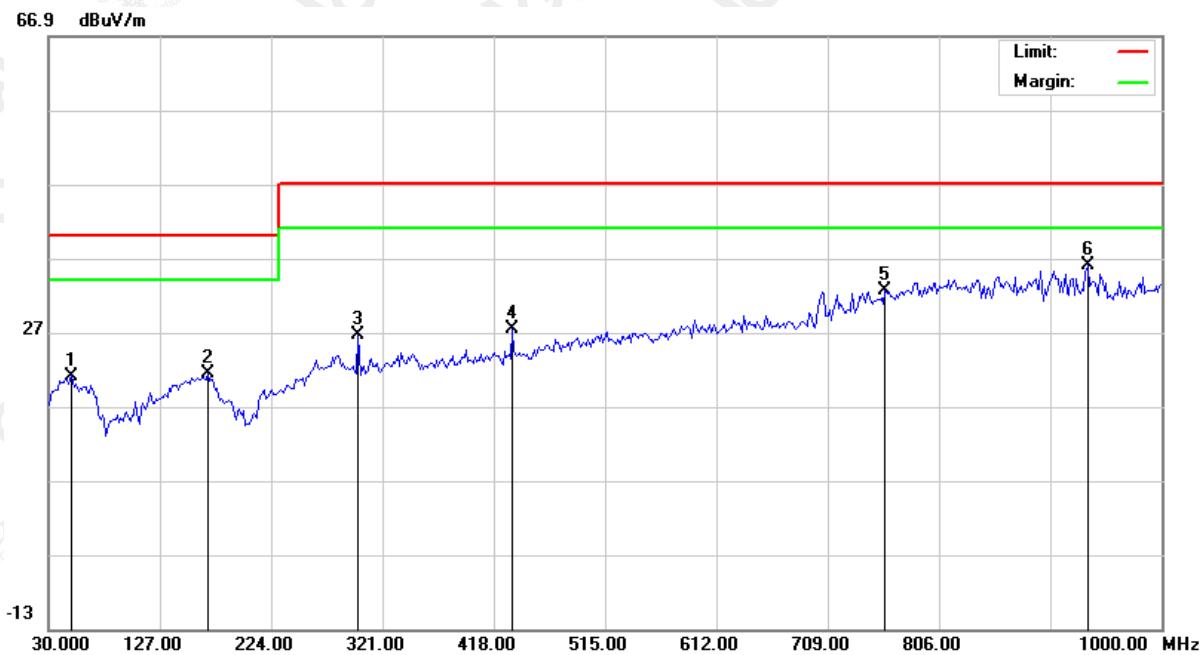
## 7.4. TEST RESULT

### RADIATED EMISSION BELOW 30MHZ

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

### RADIATED EMISSION 30MHz- 1GHZ

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Horizontal



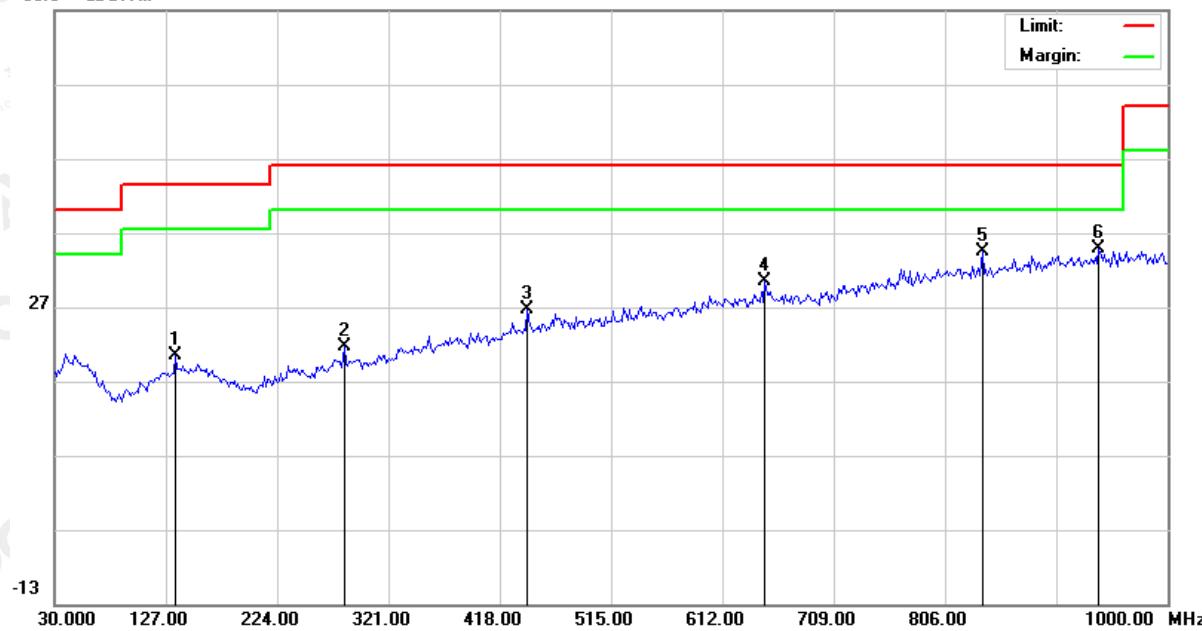
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB				
1		49.4000	1.35	19.75	21.10	40.00	-18.90	peak			
2		169.0331	3.15	18.26	21.41	40.00	-18.59	peak			
3		299.9833	7.07	19.47	26.54	47.00	-20.46	peak			
4		434.1666	3.74	23.67	27.41	47.00	-19.59	peak			
5		759.1166	3.03	29.49	32.52	47.00	-14.48	peak			
6	*	935.3333	3.98	32.00	35.98	47.00	-11.02	peak			

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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Vertical

66.9 dB<sub>B</sub>V/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dB <sub>B</sub> V	dB <sub>B</sub> V/m	dB <sub>B</sub> V/m	dB <sub>B</sub> V/m	dB				
1		135.0833	1.51	18.92	20.43	43.50	-23.07	peak			
2		282.2000	1.74	19.89	21.63	46.00	-24.37	peak			
3		442.2500	2.87	23.83	26.70	46.00	-19.30	peak			
4		649.1833	2.82	27.54	30.36	46.00	-15.64	peak			
5		838.3333	3.48	30.90	34.38	46.00	-11.62	peak			
6	*	940.1833	2.76	32.05	34.81	46.00	-11.19	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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**FIELD STRENGTH OF FUNDAMENTAL**

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Modulation :	GFSK	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2430.031	109.46	-9.61	99.85	114.00	-14.15	peak
2430.031	99.03	-9.61	89.42	94.00	-4.58	AVG
2454.031	109.29	-9.61	99.68	114.00	-14.32	peak
2454.031	98.76	-9.61	89.15	94.00	-4.85	AVG
2478.031	109.38	-9.61	99.77	114.00	-14.23	peak
2478.031	99.00	-9.61	89.39	94.00	-4.61	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Modulation :	GFSK	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2430.031	107.35	-9.61	97.74	114.00	-16.26	peak
2430.031	96.84	-9.61	87.23	94.00	-6.77	AVG
2454.031	107.15	-9.61	97.54	114.00	-16.46	peak
2454.031	96.79	-9.61	87.18	94.00	-6.82	AVG
2478.031	107.03	-9.61	97.42	114.00	-16.58	peak
2478.031	96.56	-9.61	86.95	94.00	-7.05	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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**RADIATED EMISSION ABOVE 1GHZ**

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4860.062	56.82	3.76	60.58	74.00	-13.42	peak
4860.062	46.43	3.76	50.19	54.00	-3.81	AVG
7290.093	50.25	8.17	58.42	74.00	-15.58	peak
7290.093	39.94	8.17	48.11	54.00	-5.89	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4860.062	55.68	3.76	59.44	74.00	-14.56	peak
4860.062	45.36	3.76	49.12	54.00	-4.88	AVG
7290.093	48.68	8.17	56.85	74.00	-17.15	peak
7290.093	38.36	8.17	46.53	54.00	-7.47	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4908.062	55.64	3.78	59.42	74.00	-14.58	peak
4908.062	45.30	3.78	49.08	54.00	-4.92	Avg
7362.093	50.39	8.23	58.62	74.00	-15.38	peak
7362.093	40.02	8.23	48.25	54.00	-5.75	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4908.062	54.47	3.78	58.25	74.00	-15.75	peak
4908.062	44.07	3.78	47.85	54.00	-6.15	Avg
7362.093	48.61	8.23	56.84	74.00	-17.16	peak
7362.093	38.31	8.23	46.54	54.00	-7.46	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4956.062	54.93	3.81	58.74	74.00	-15.26	peak
4956.062	44.31	3.81	48.12	54.00	-5.88	Avg
7434.093	48.25	8.27	56.52	74.00	-17.48	peak
7434.093	41.60	8.27	49.87	54.00	-4.13	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
4956.062	54.33	3.81	58.14	74.00	-15.86	peak
4956.062	43.71	3.81	47.52	54.00	-6.48	Avg
7434.093	47.68	8.27	55.95	74.00	-18.05	peak
7434.093	37.09	8.27	45.36	54.00	-8.64	Avg

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**Note:** Other emissions from 8G to 25 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 GFSK modulation was the worst case and only the data of worst recorded in this report.

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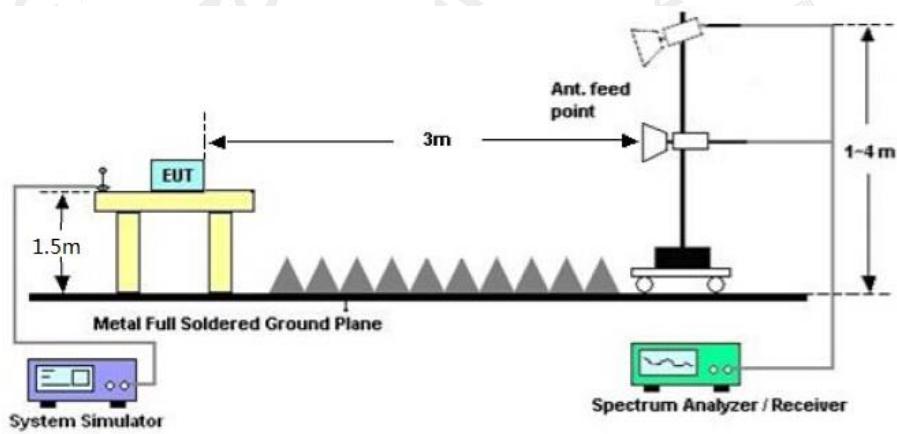
## 8. BAND EDGE EMISSION

### 8.1. MEASUREMENT PROCEDURE

- 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.
- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO  
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
- Other procedures refer to clause 7.2.

### 8.2 TEST SETUP

RADIATED EMISSION TEST SETUP



### 8.3 RADIATED TEST RESULT

#### Note:

- Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
- 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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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Horizontal

Peak Value

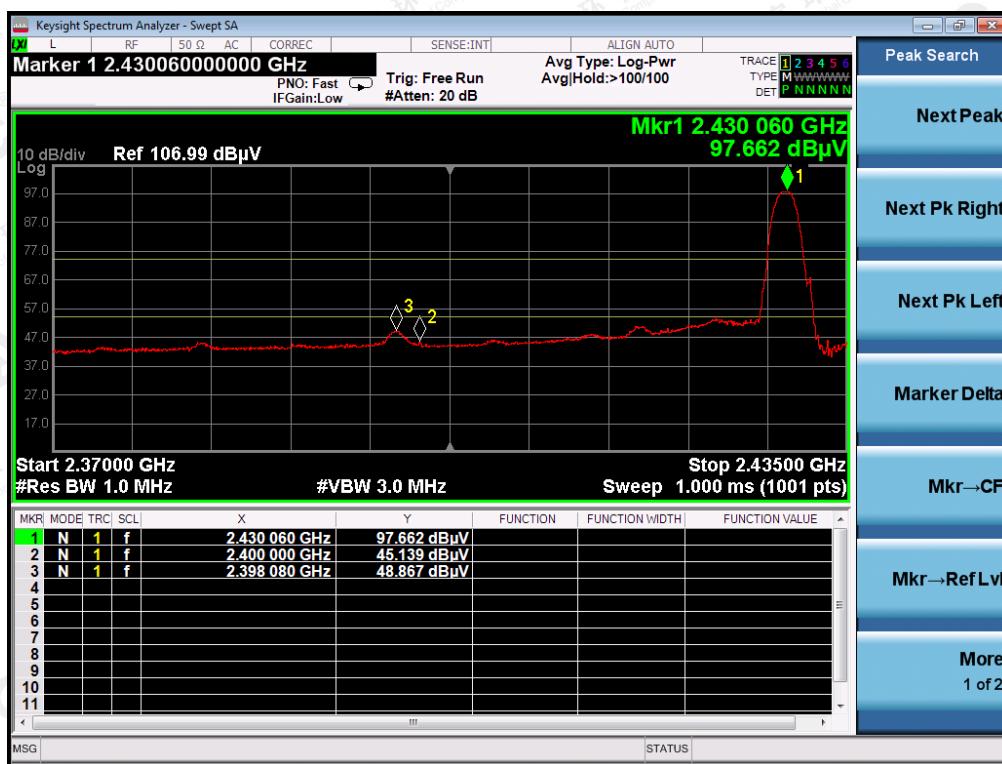


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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Vertical

### Peak Value

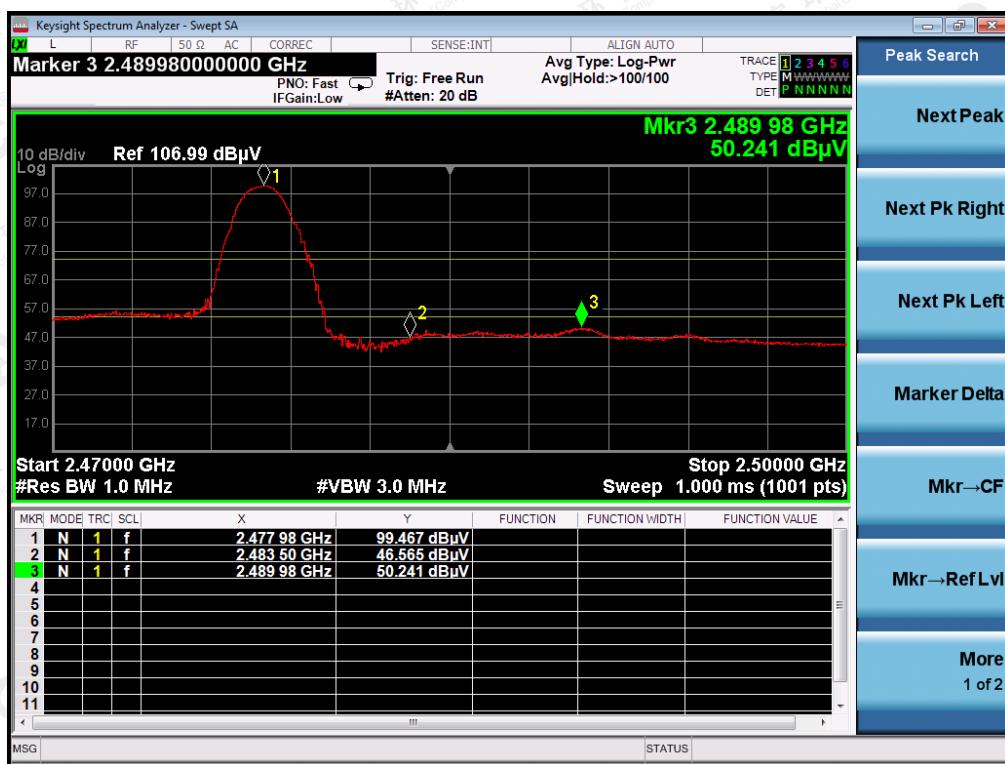


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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 3	Polarization :	Horizontal

Peak Value

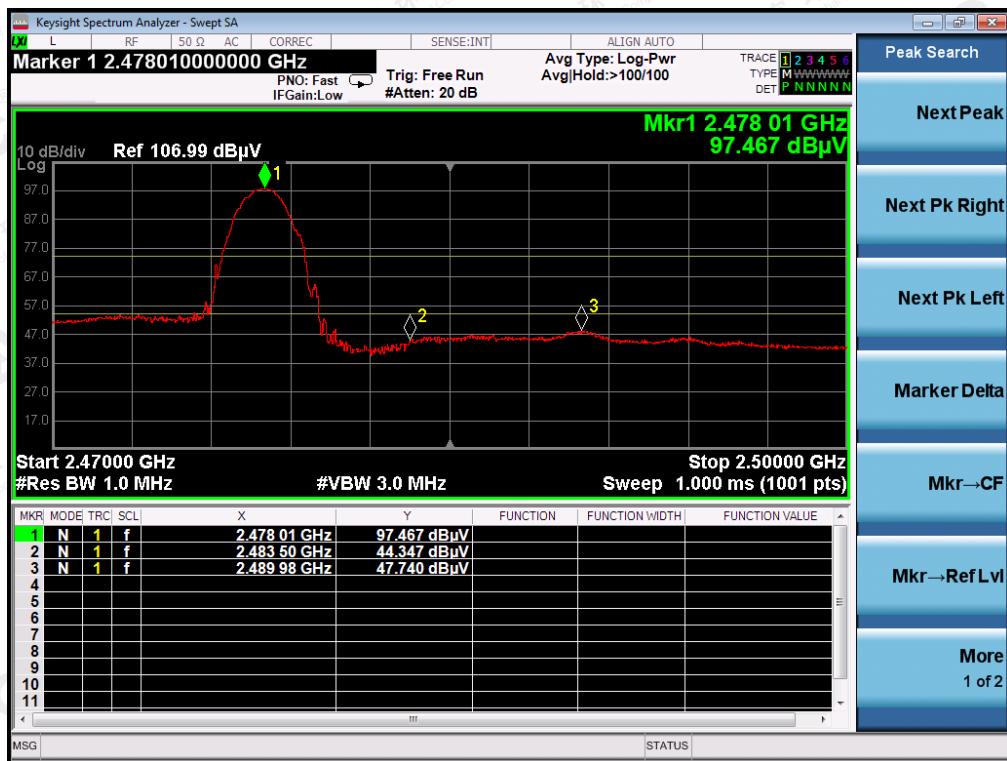


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EUT :	4 AXIS DRONE	Model Name. :	S11
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3V
Test Mode :	Mode 1	Polarization :	Vertical

## Peak Value



Note: The peak level of the emission are less than the average limit, so the average level of the emission can comply with the requirement without test.

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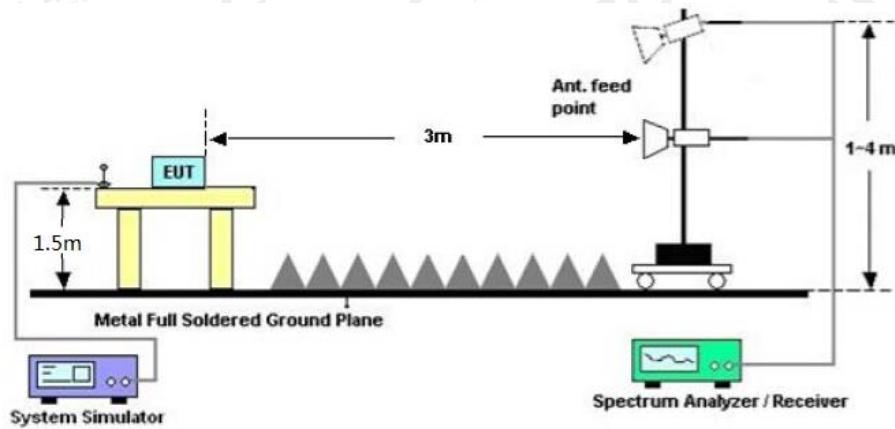


## 9. 20DB BANDWIDTH

### 9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW $\geqslant 3 \times$  RBW.
3. 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

Test Data (MHz)		Criteria
Low Channel	1.015	PASS
Middle Channel	0.9617	PASS
High Channel	0.8901	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

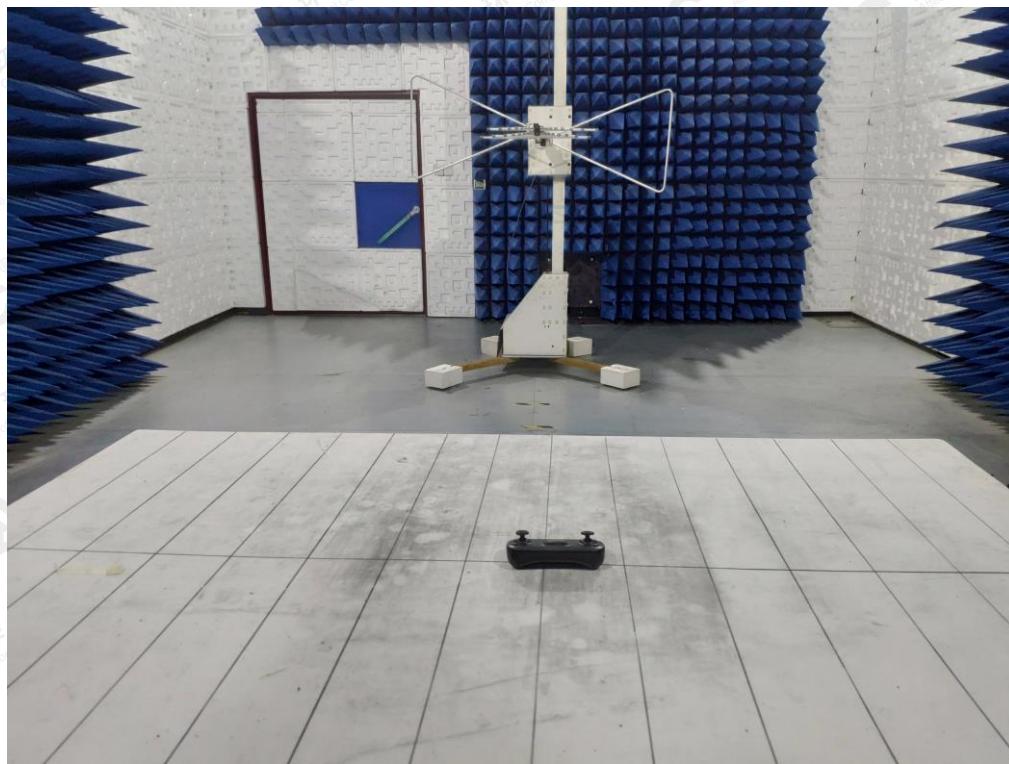


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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

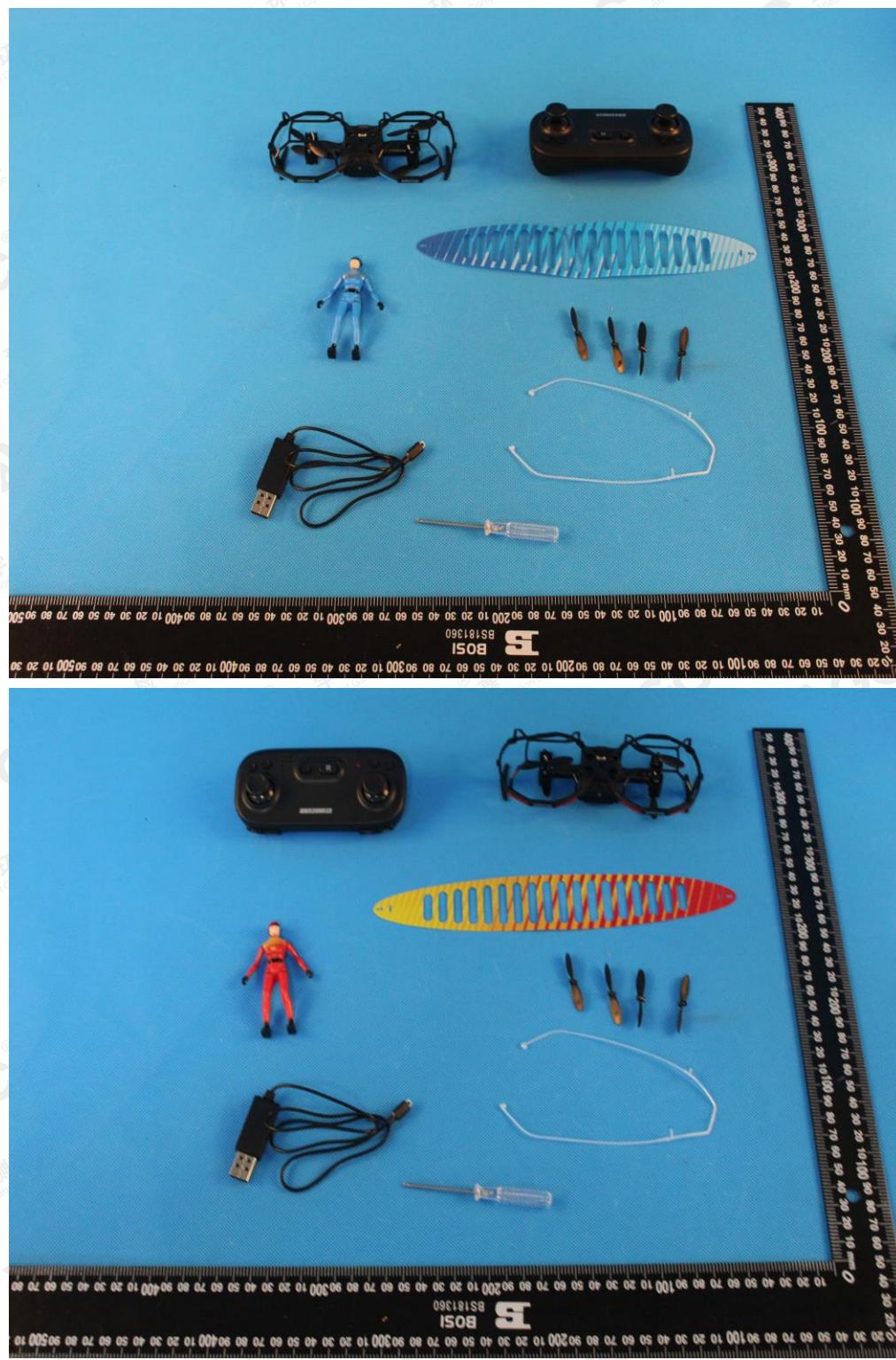


FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



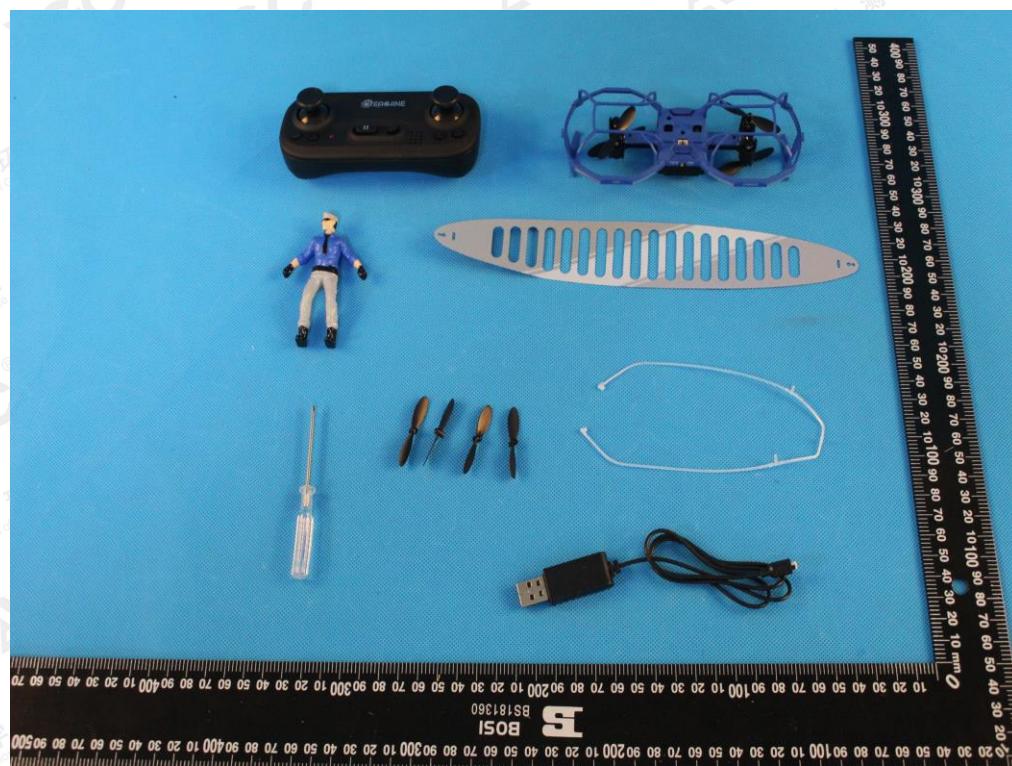
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**APPENDIX B: PHOTOGRAPHS OF THE EUT**  
**ALL VIEW OF EUT**

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TOP VIEW OF EUT



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## BOTTOM VIEW OF EUT



## FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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## RIGHT VIEW OF EUT



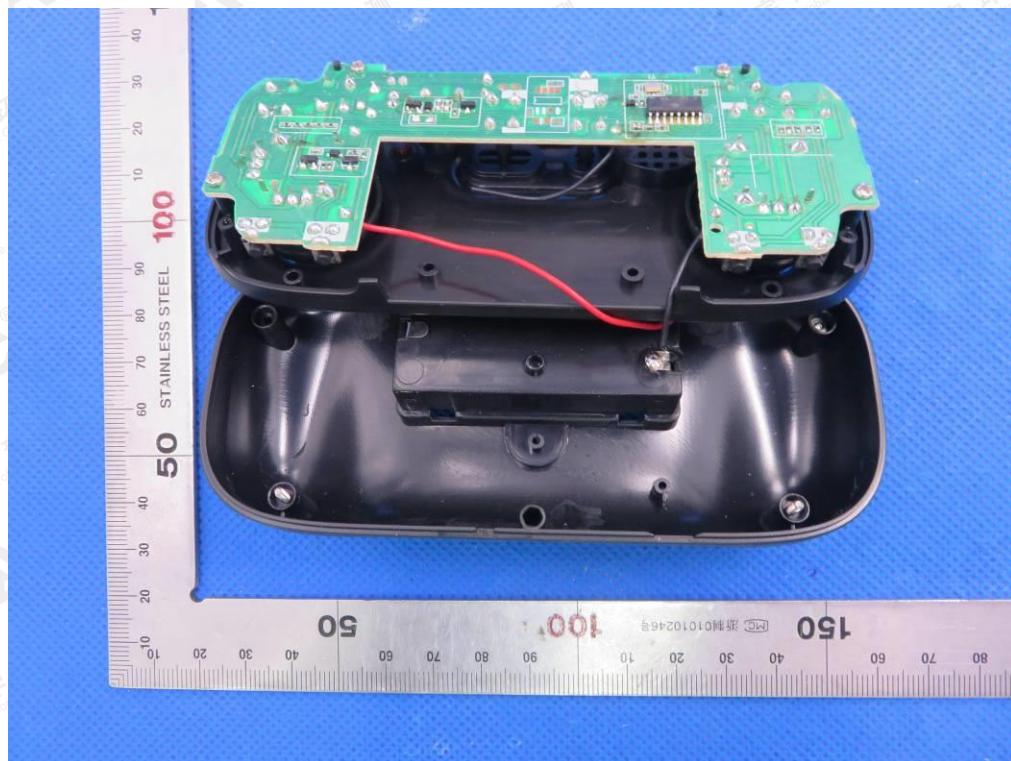
## OPEN VIEW OF EUT-1



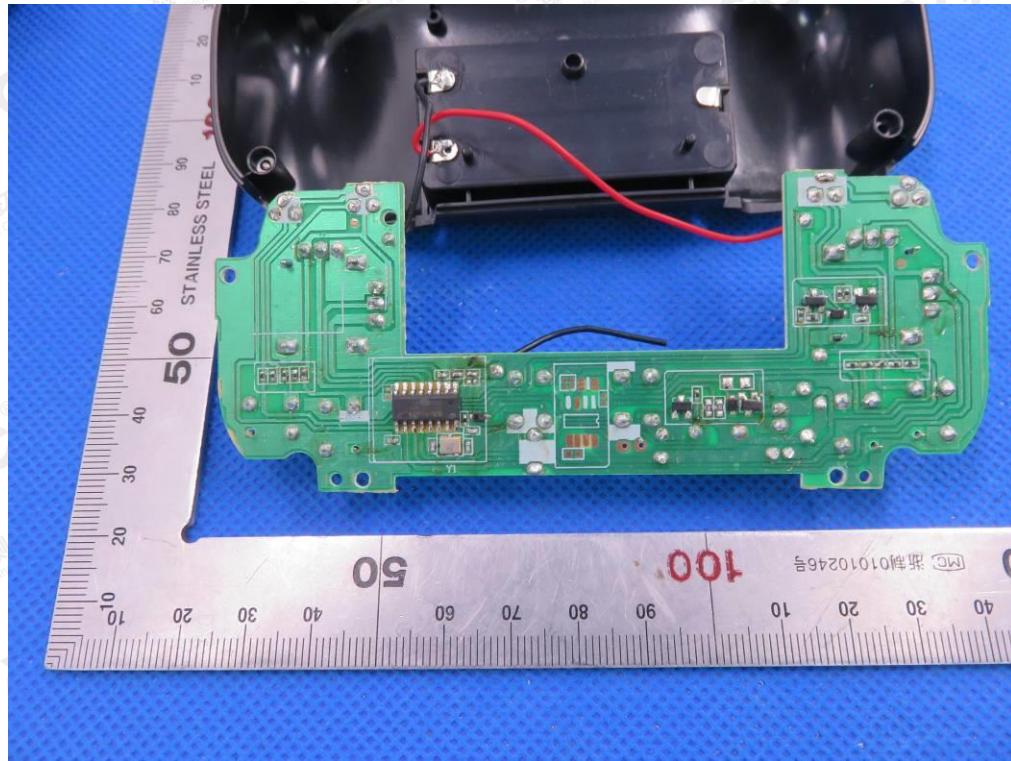
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## OPEN VIEW OF EUT-2



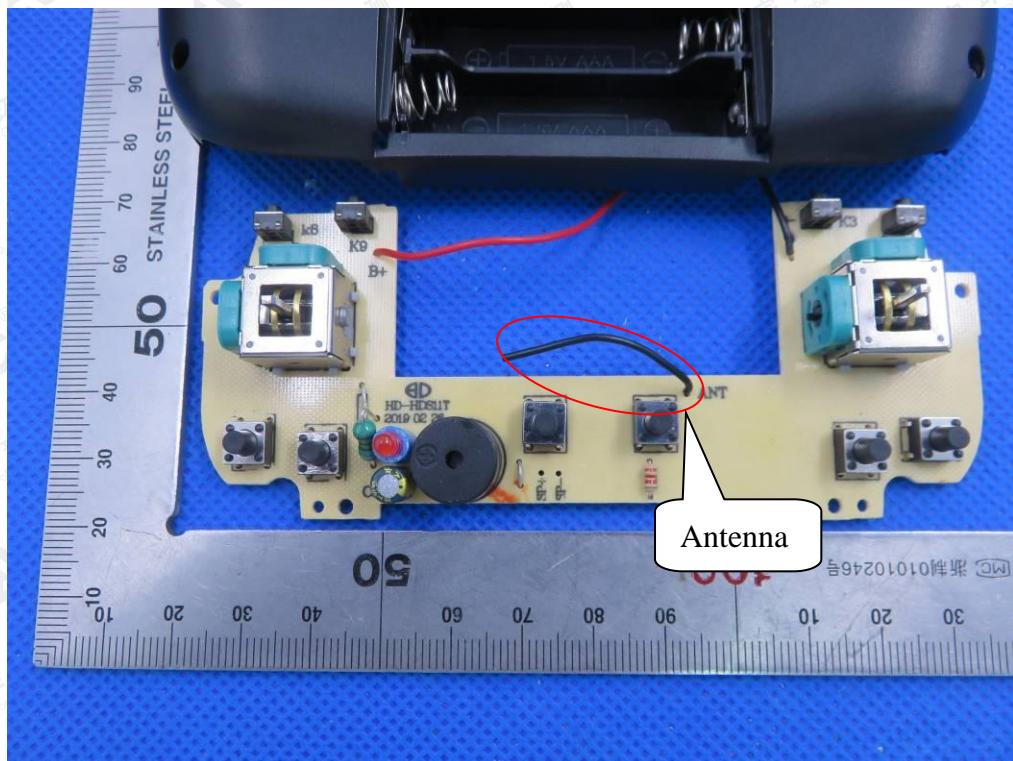
## INTERNAL VIEW OF EUT-1



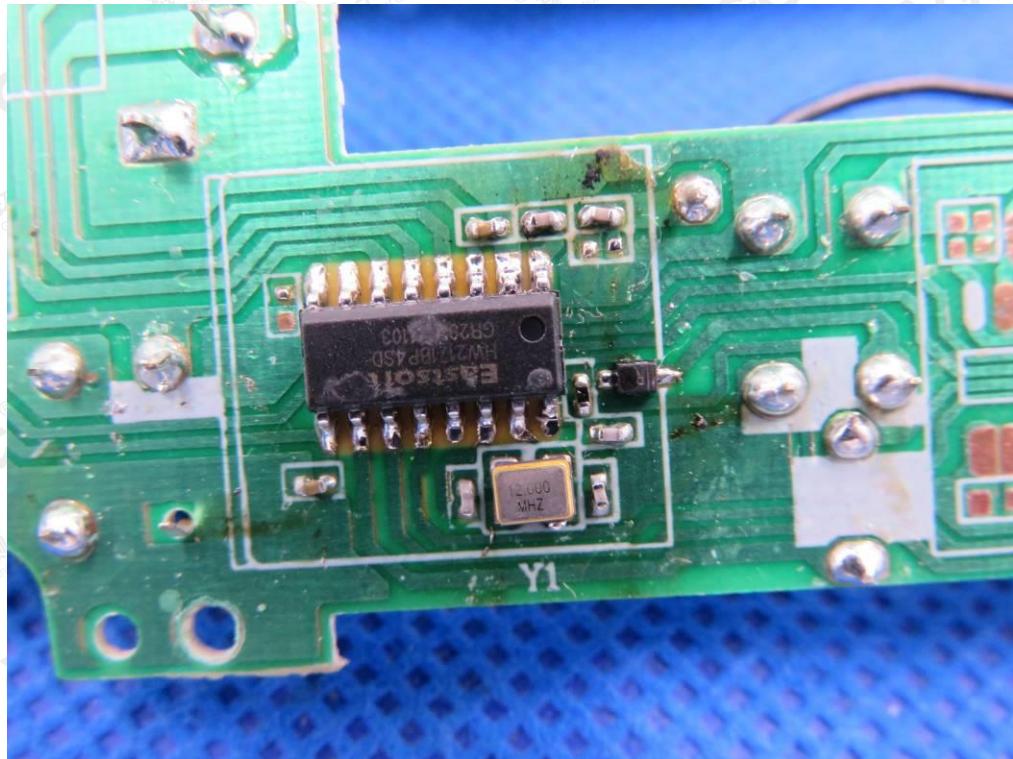
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## INTERNAL VIEW OF EUT-2



## INTERNAL VIEW OF EUT-3



----END OF REPORT----

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