
FCC Test Report

Report No.: AGC00056160302FE03

FCC ID : 2AFDWSKYLINE32
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Skyline32 flight controller
BRAND NAME : Skyline32
MODEL NAME : Skyline32 Advanced+OSD, Skyline32 Acrobatic,
Skyline32 Advanced, Skyline32 Acrobatic+OSD
CLIENT : Dongguan Yinyan Electric Tech. Ltd.
DATE OF ISSUE : Mar.24, 2016
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S)
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	/	Mar.24, 2016	Valid	Original Report

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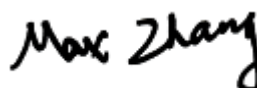
1. VERIFICATION OF CONFORMITY

Applicant	Dongguan Yinyan Electric Tech. Ltd.
Address	EMAX Industrial Park, Gao-Long Industrial Zone, Huanzhuli Village, Changping Town, Dongguan, Guangdong Province, China
Manufacturer	Dongguan Yinyan Electric Tech. Ltd.
Address	EMAX Industrial Park, Gao-Long Industrial Zone, Huanzhuli Village, Changping Town, Dongguan, Guangdong Province, China
Product Designation	Skyline32 flight controller
Brand Name	Skyline32
Test Model	Skyline32 Advanced+OSD
Series Model	Skyline32 Acrobatic, Skyline32 Advanced, Skyline32 Acrobatic+OSD
Model Difference	All the same except the model name.
Date of test	Mar.22, 2016 to Mar.23, 2016
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

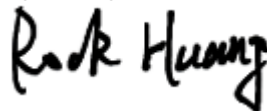
The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Tested by



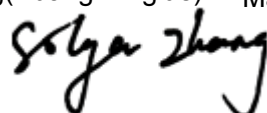
Max Zhang(Zhang Yi) Mar.24, 2016

Reviewed by



Rock Huang(Huang Dinglue) Mar.24, 2016

Approved by



Solger Zhang(Zhang Hongyi) Mar.24, 2016
Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	5.740 GHz to 5.847GHz
Maximum field strength	88.56dBuV(AV)@3m
Modulation	FM
Number of channels	18
Antenna Gain	3dBi
Antenna Designation	Detachable Antenna with SMA connector (Met 15.203 Antenna requirement)
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 12.6V by battery

2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Frequency	Frequency
5740~5847MHZ	5740MHZ	5800MHZ
	5745MHZ	5805MHZ
	5752MHZ	5809MHZ
	5760MHZ	5820MHZ
	5765MHZ	5825MHZ
	5771MHZ	5828MHZ
	5780MHZ	5840MHZ
	5785MHZ	5845MHZ
	5790MHZ	5847MHZ

3. MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.18\text{dB}$
2	All emissions, radiated	$\pm 3.91\text{dB}$
3	Temperature	$\pm 0.5^\circ\text{C}$
4	Humidity	$\pm 2\%$

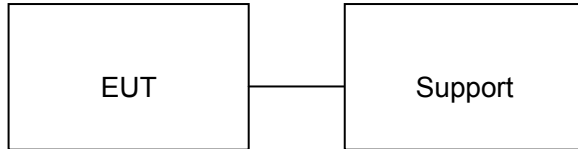
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel(5740MHz)
2	Middle channel(5800MHz)
3	High channel(5847MHz)
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.	

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Skyline32 flight controller	Skyline32	2AFDWSKYLINE32	EUT
2	Battery	BC-12V	N/A	A.E

5.3. SUMMARY OF TEST RESULTS

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

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 C63.4:2009.

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 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 6, 2015	June 5, 2016
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016

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	
		μ V/m	dB(μ 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(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ 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.

7.2. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 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.
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.

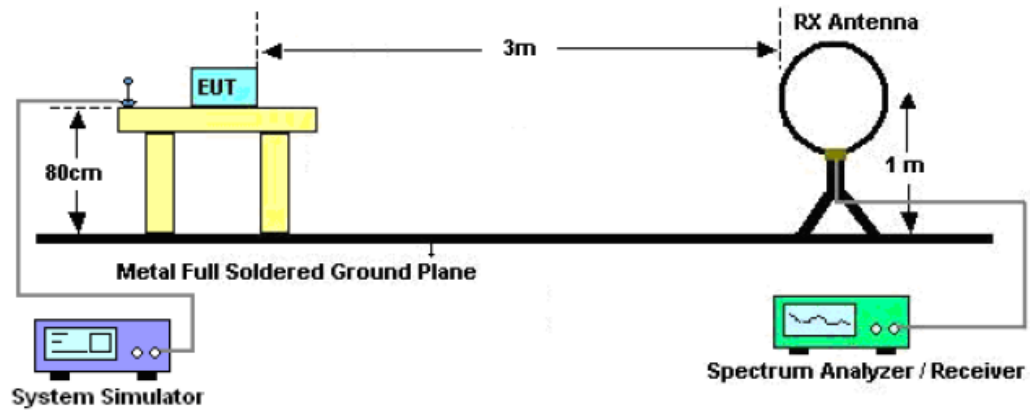
The following table is the setting of spectrum analyzer and receiver.

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

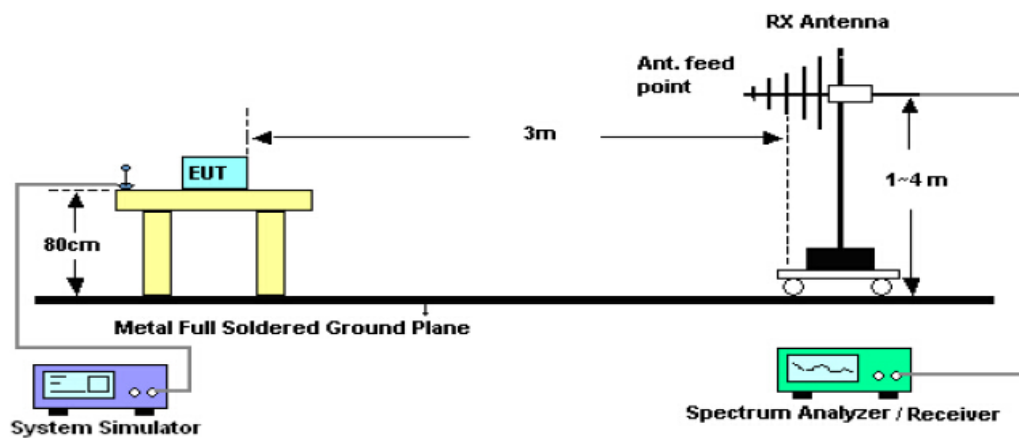
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

7.3. TEST SETUP

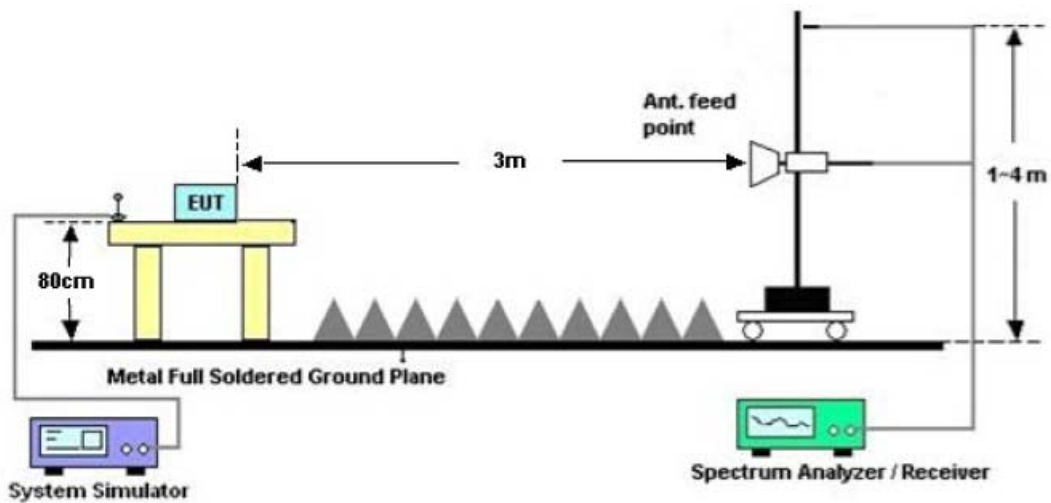
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



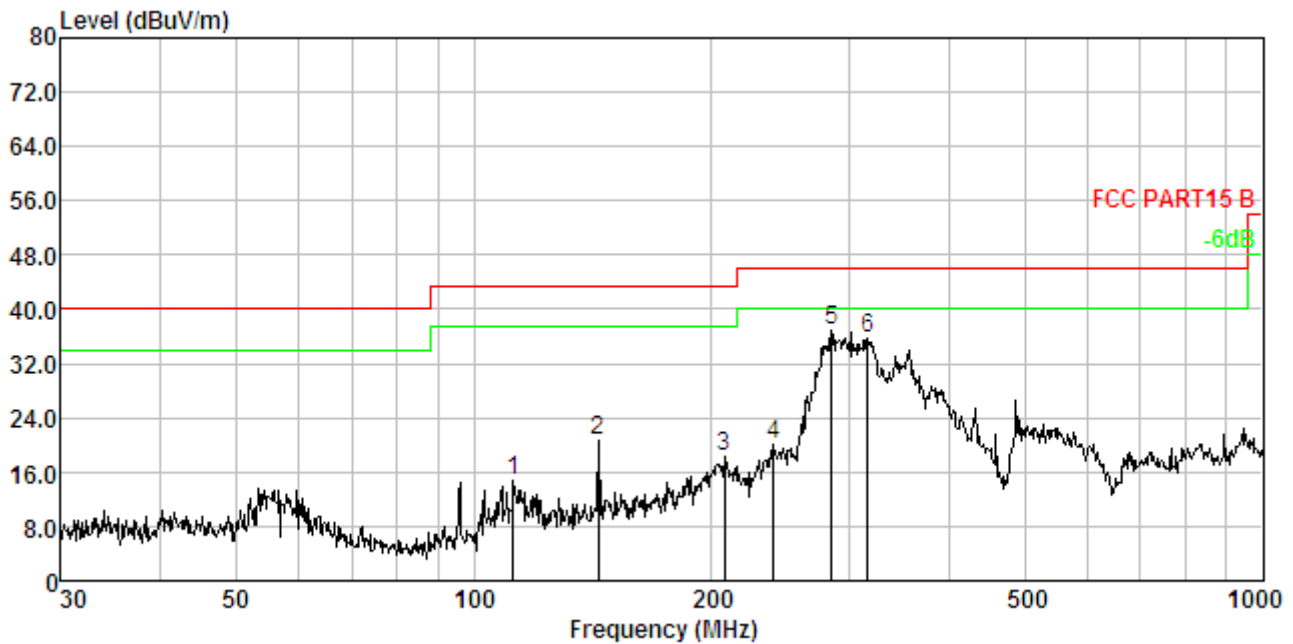
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION 30MHz- 1GHZ

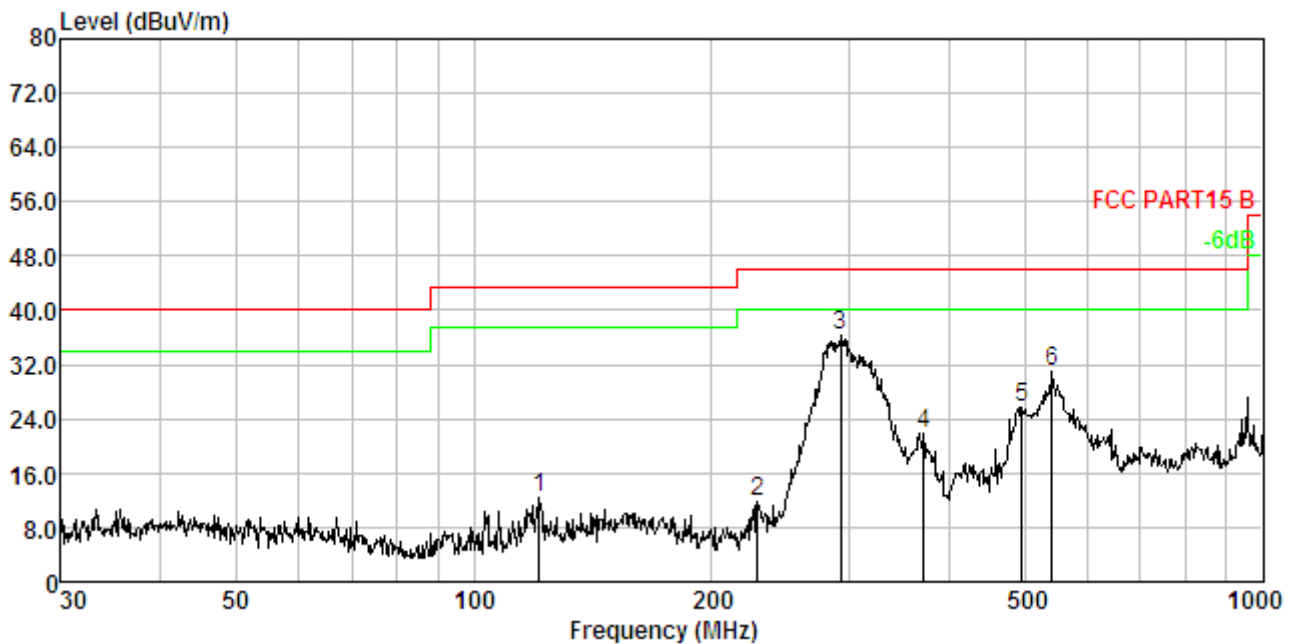
EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12.6V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	112.131	2.25	11.28	31.59	30.43	14.69	43.50	-28.81	Peak
2.	143.830	2.47	13.57	35.25	30.52	20.77	43.50	-22.73	Peak
3.	207.850	2.81	10.53	35.68	30.64	18.38	43.50	-25.12	Peak
4.	239.987	2.94	11.71	36.21	30.69	20.17	46.00	-25.83	Peak
5.	283.979	3.09	12.89	51.59	30.75	36.82	46.00	-9.18	Peak
6.	315.481	3.19	13.55	49.80	30.79	35.75	46.00	-10.25	Peak

RESULT: PASS

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC12.6V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamplifier Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	121.123	2.32	12.10	28.33	30.46	12.29	43.50	-31.21	Peak
2.	229.293	2.90	11.21	28.50	30.68	11.93	46.00	-34.07	Peak
3.	292.058	3.12	13.04	50.93	30.76	36.33	46.00	-9.67	Peak
4.	372.005	3.33	14.69	34.77	30.85	21.94	46.00	-24.06	Peak
5.	495.934	3.60	17.03	35.99	30.95	25.67	46.00	-20.33	Peak
6.	541.373	3.67	17.71	40.54	30.98	30.94	46.00	-15.06	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.

RADIATED EMISSION ABOVE 1GHZ

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5740.013	91.23	4.42	95.65	114	-18.35	peak
5740.013	84.14	4.42	88.56	94	-5.44	AVG
11480.026	41.26	9.42	50.68	74	-23.32	peak
11480.026	33.87	9.42	43.29	54	-10.71	AVG
17220.039	38.75	10.51	49.26	74	-24.74	peak
17220.039	32.65	10.51	43.16	54	-10.84	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5740.013	87.54	4.42	91.96	114	-22.04	peak
5740.013	80.14	4.42	84.56	94	-9.44	AVG
11480.026	40.14	9.42	49.56	74	-24.44	peak
11480.026	32.64	9.42	42.06	54	-11.94	AVG
17220.039	36.78	10.51	47.29	74	-26.71	peak
17220.039	31.68	10.51	42.19	54	-11.81	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5800.016	89.46	4.67	94.13	114	-19.87	peak
5800.016	82.67	4.67	87.34	94	-6.66	AVG
11600.032	40.33	9.46	49.79	74	-24.21	peak
11600.032	32.67	9.46	42.13	54	-11.87	AVG
17400.048	39.68	10.68	50.36	74	-23.64	peak
17400.048	33.71	10.68	44.39	54	-9.61	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5800.016	87.64	4.67	92.31	114	-21.69	peak
5800.016	80.35	4.67	85.02	94	-8.98	AVG
11600.032	38.64	9.46	48.1	74	-25.9	peak
11600.032	31.77	9.46	41.23	54	-12.77	AVG
17400.048	38.11	10.68	48.79	74	-25.21	peak
17400.048	33.16	10.68	43.84	54	-10.16	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
5847.021	90.67	4.72	95.39	114	-18.61	peak
5847.021	83.64	4.72	88.36	94	-5.64	AVG
11694.042	40.37	9.68	50.05	74	-23.95	peak
11694.042	33.68	9.68	43.36	54	-10.64	AVG
17541.063	39.56	10.87	50.43	74	-23.57	peak
17541.063	33.16	10.87	44.03	54	-9.97	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
5847.021	87.64	4.72	92.36	114	-21.64	peak
5847.021	80.47	4.72	85.19	94	-8.81	AVG
11694.042	38.46	9.68	48.14	74	-25.86	peak
11694.042	31.86	9.68	41.54	54	-12.46	AVG
17541.063	38.12	10.87	48.99	74	-25.01	peak
17541.063	30.87	10.87	41.74	54	-12.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: Other emissions from 1G 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.

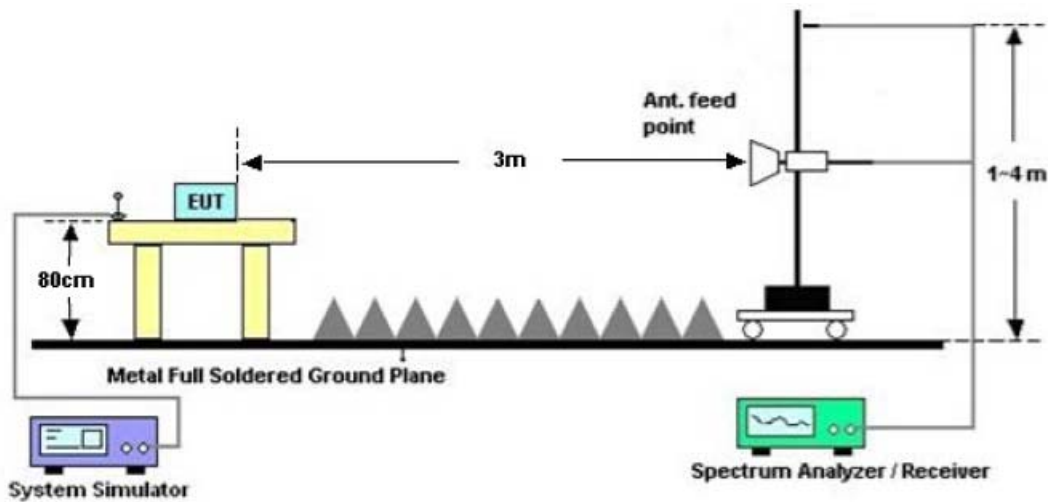
8. BAND EDGE EMISSION

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(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.
3. The GFSK modulation was the worst case and only the data of worst recorded in this report.

EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value



AV Value



EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value



AV Value



EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value



AV Value



EUT :	Skyline32 flight controller	Model Name. :	Skyline32 Advanced+OSD
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 12.6V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



AV Value

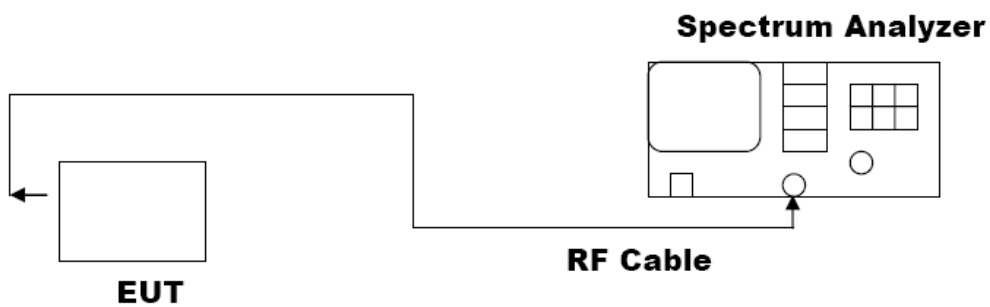


9. 20DB BANDWIDTH

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 SPA Centre Frequency = Operation Frequency, $RBW \geq 1\%$ of SPAN, $VBW \geq 3 \times RBW$.
4. Set SPA Trace 1 Max hold, then View.

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

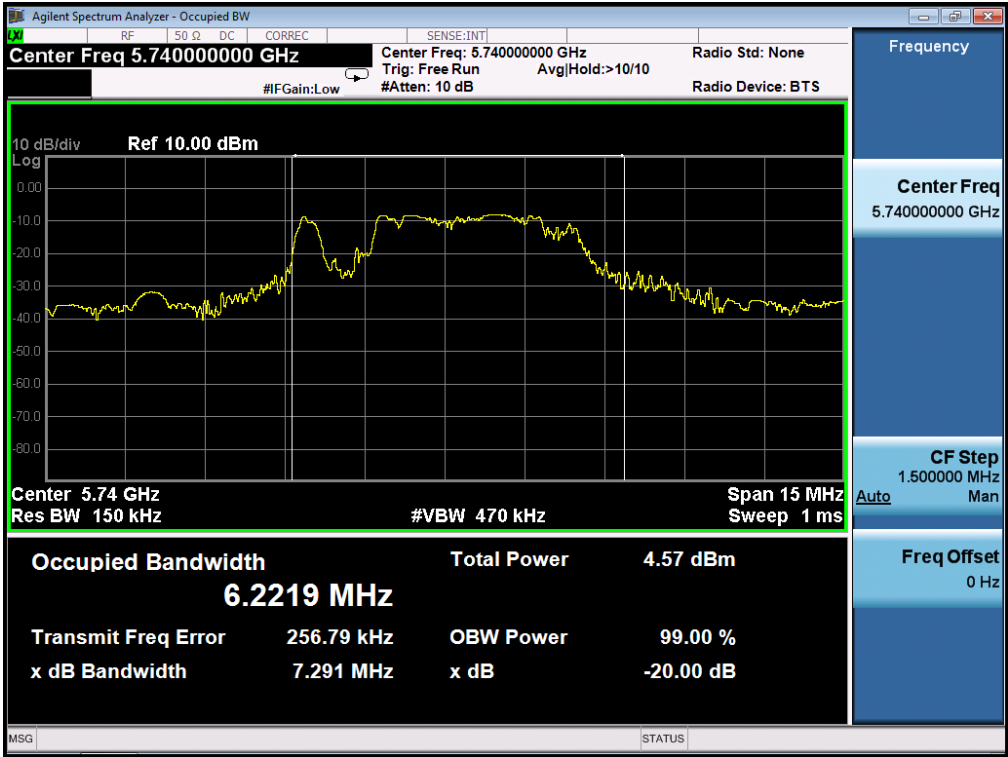


9.3. MEASUREMENT RESULTS

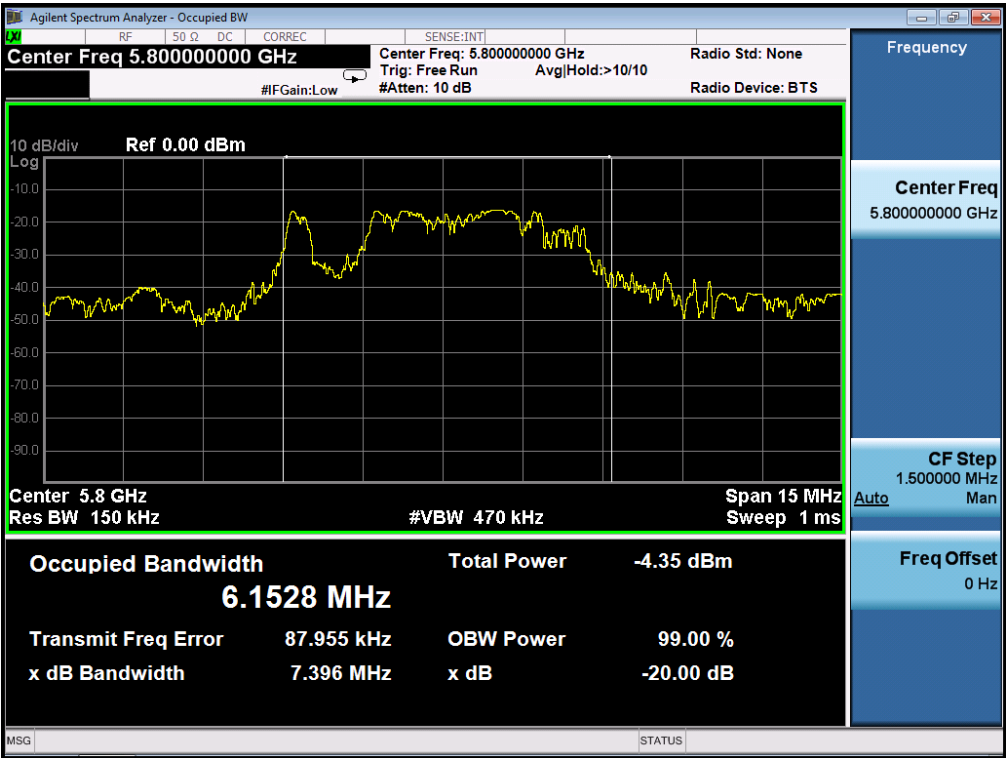
TEST ITEM	20DB BANDWIDTH
TEST MODULATION	FM

Test Data (MHz)		Criteria
5740MHz	7.291	PASS
5800MHz	7.396	PASS
5847MHz	6.890	PASS

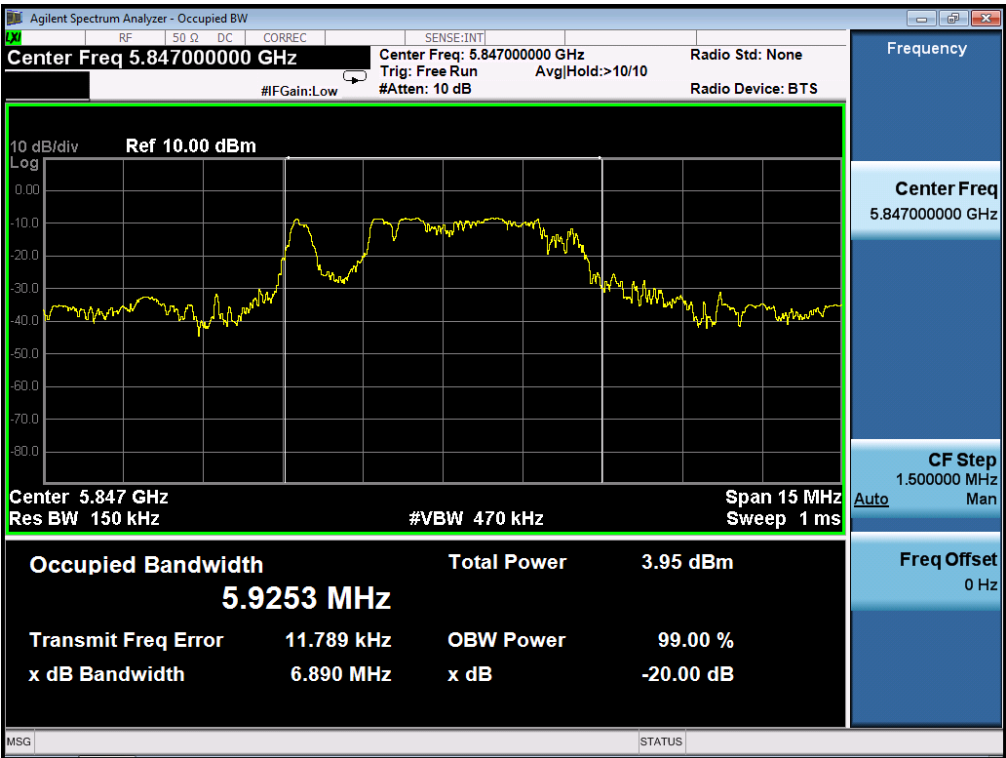
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

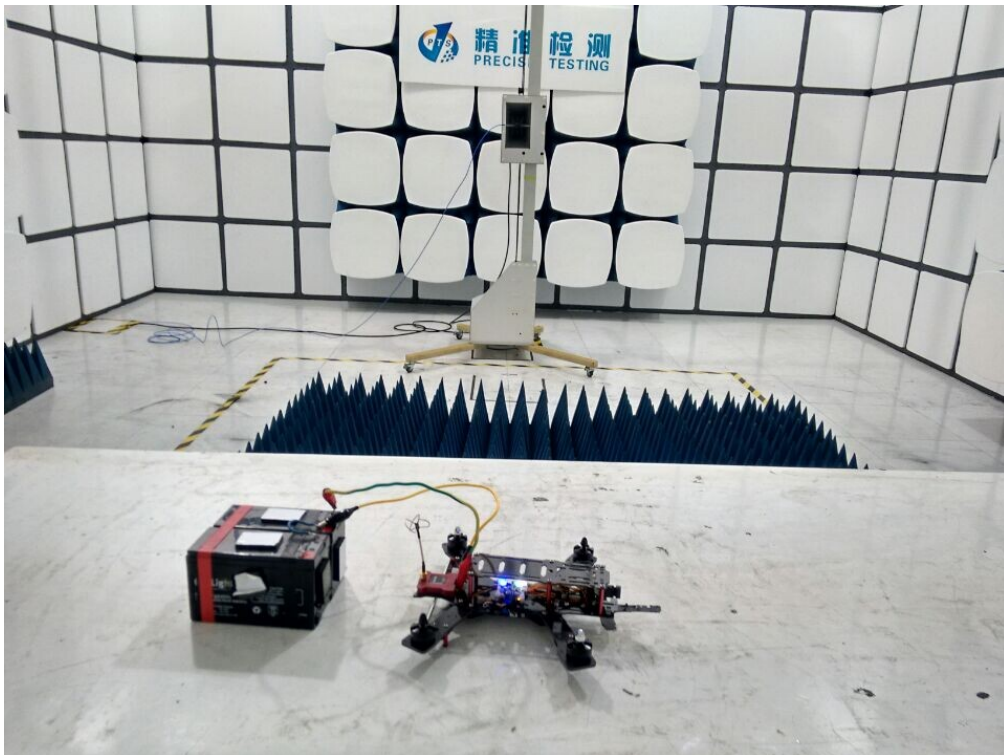
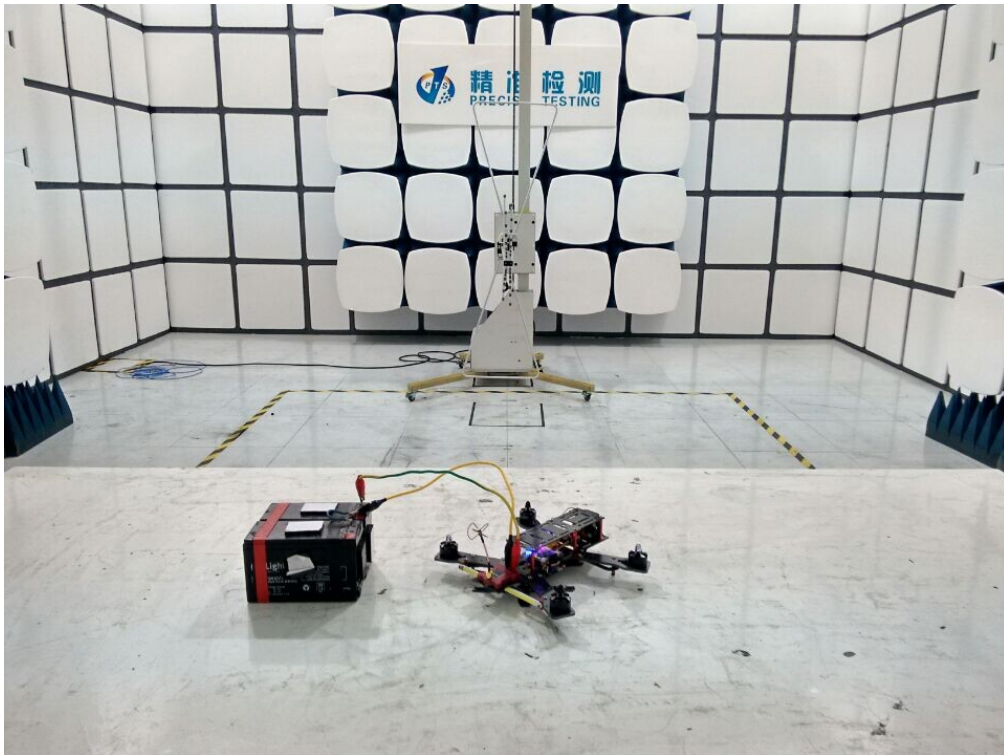


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



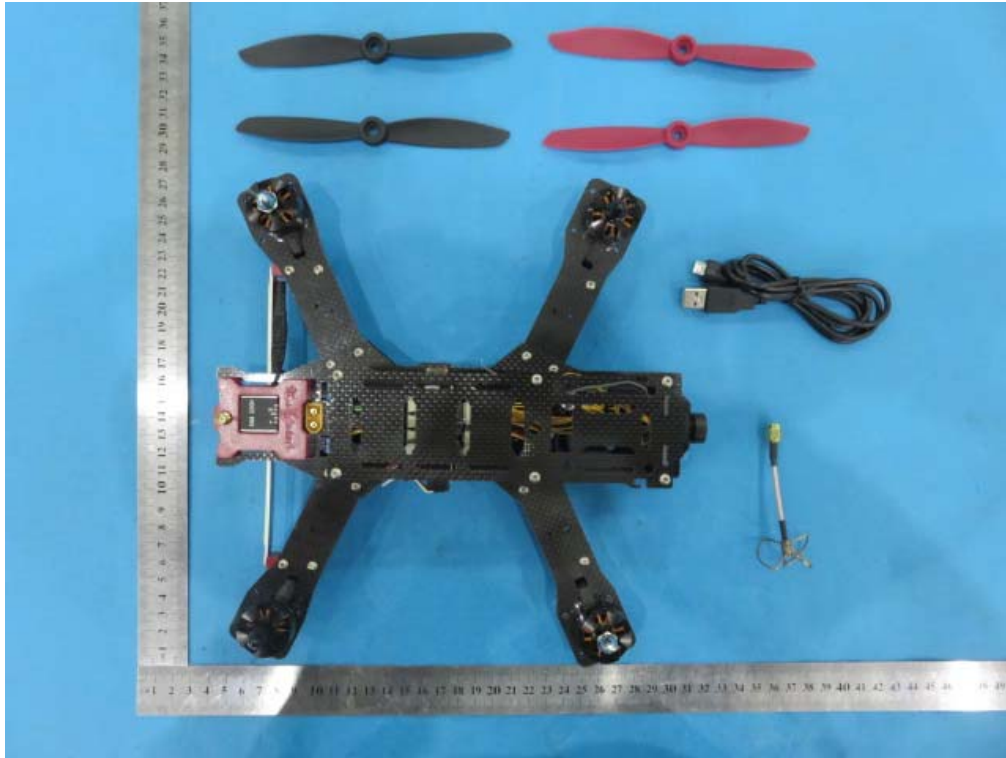
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP

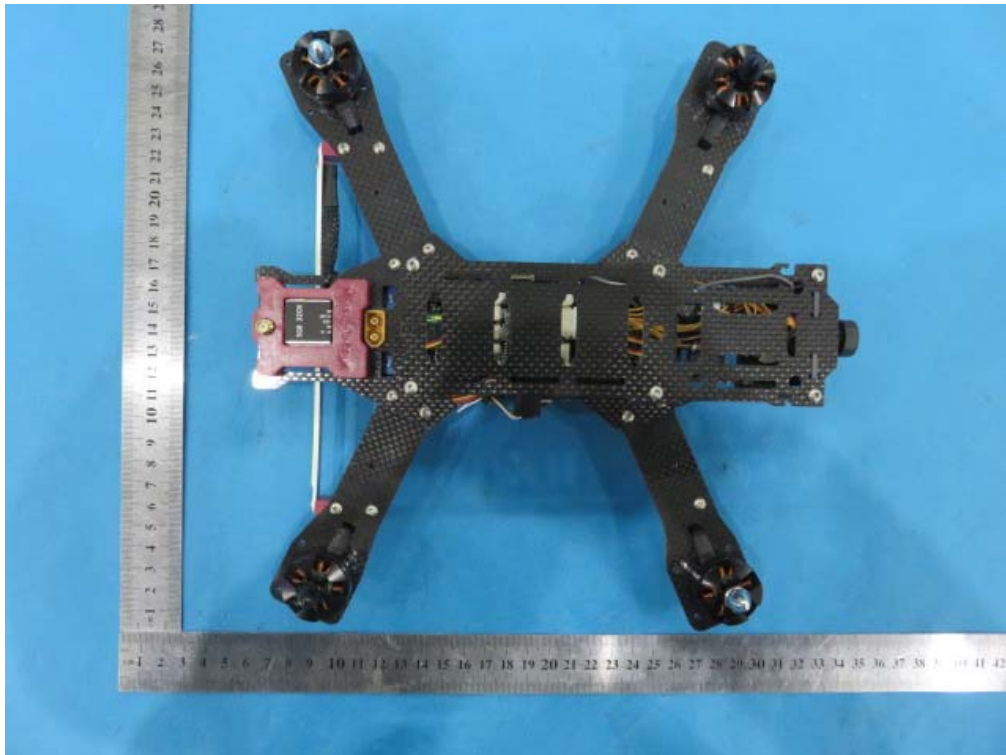


APPENDIX B: PHOTOGRAPHS OF EUT

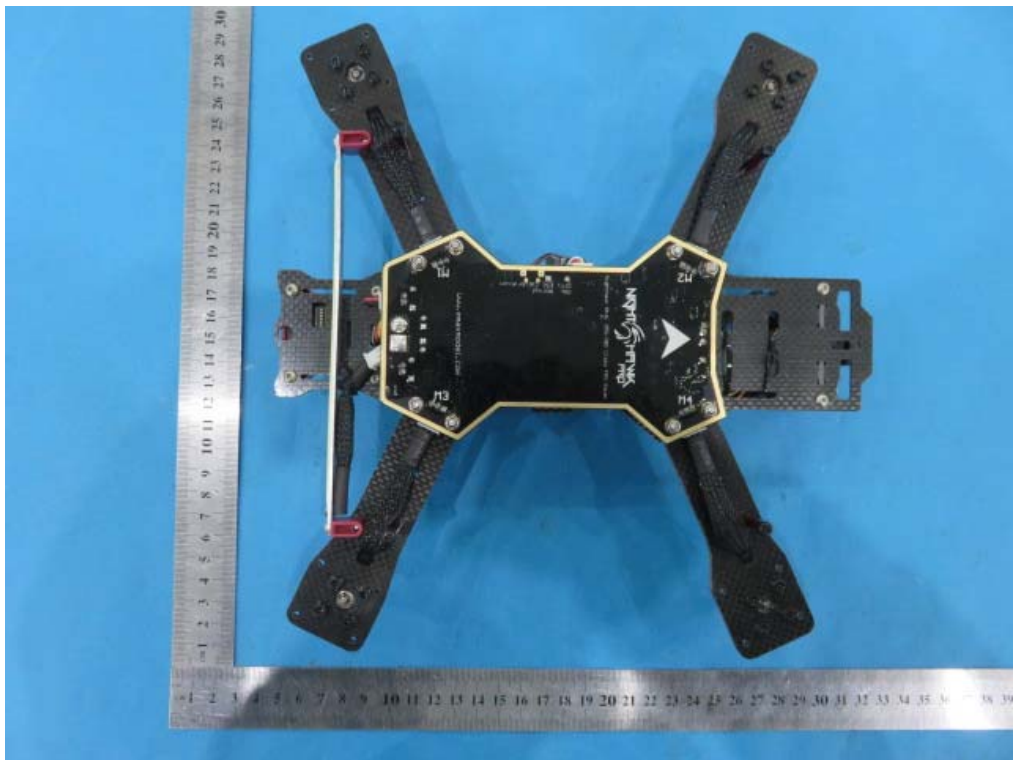
ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



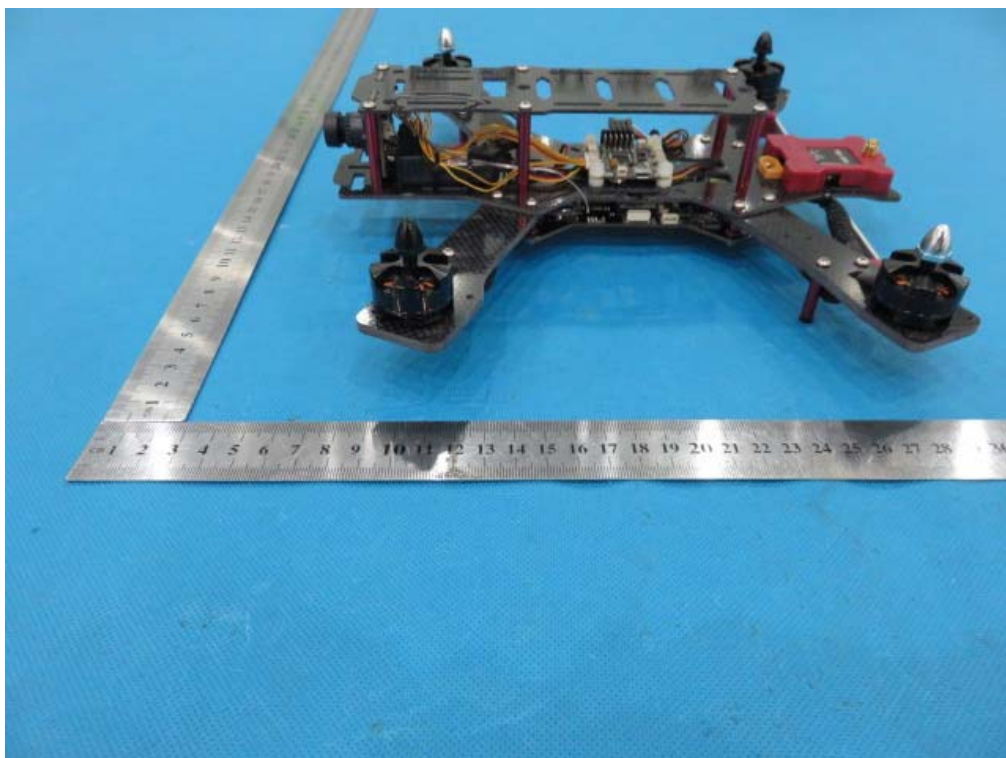
FRONT VIEW OF EUT



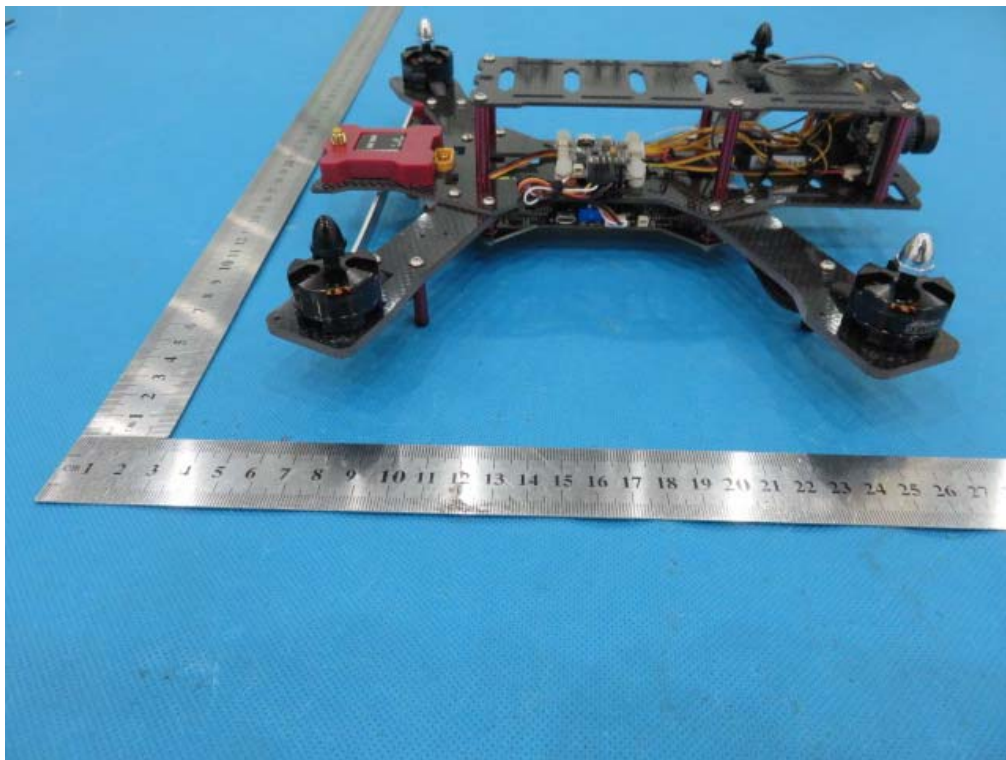
BACK VIEW OF EUT



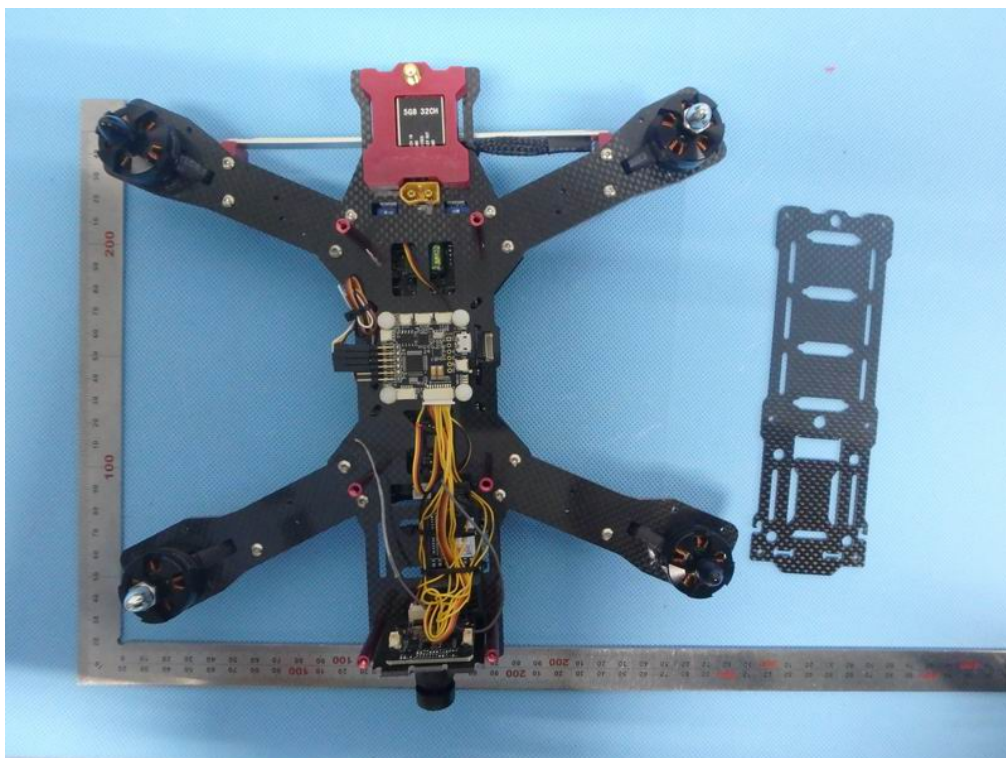
LEFT VIEW OF EUT



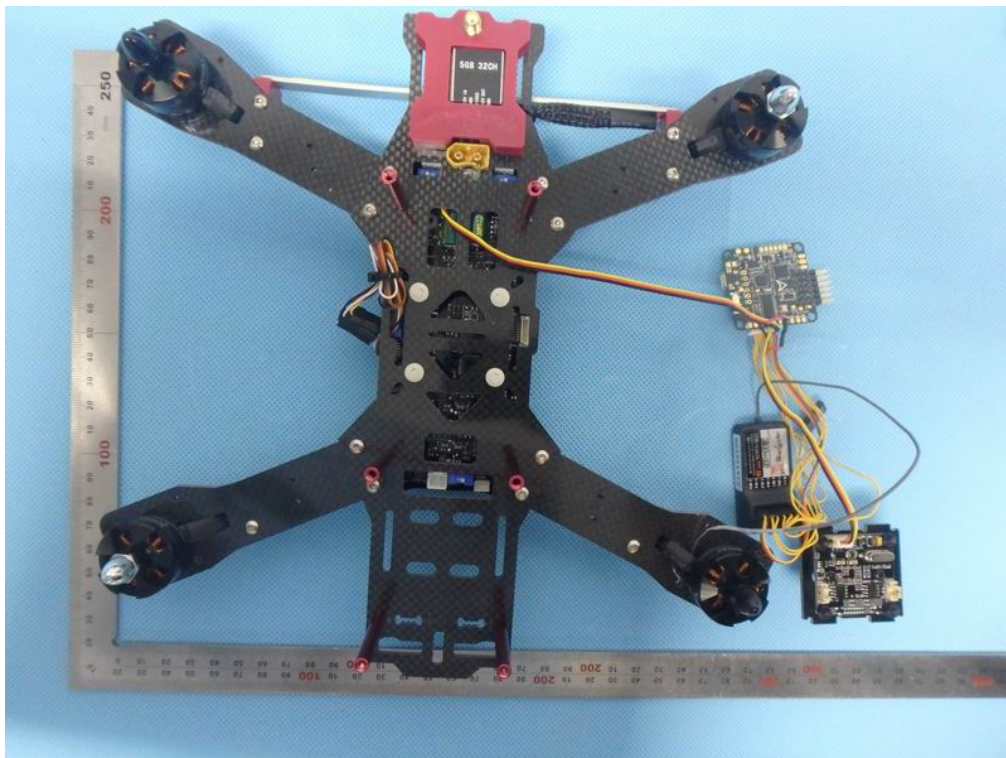
RIGHT VIEW OF EUT



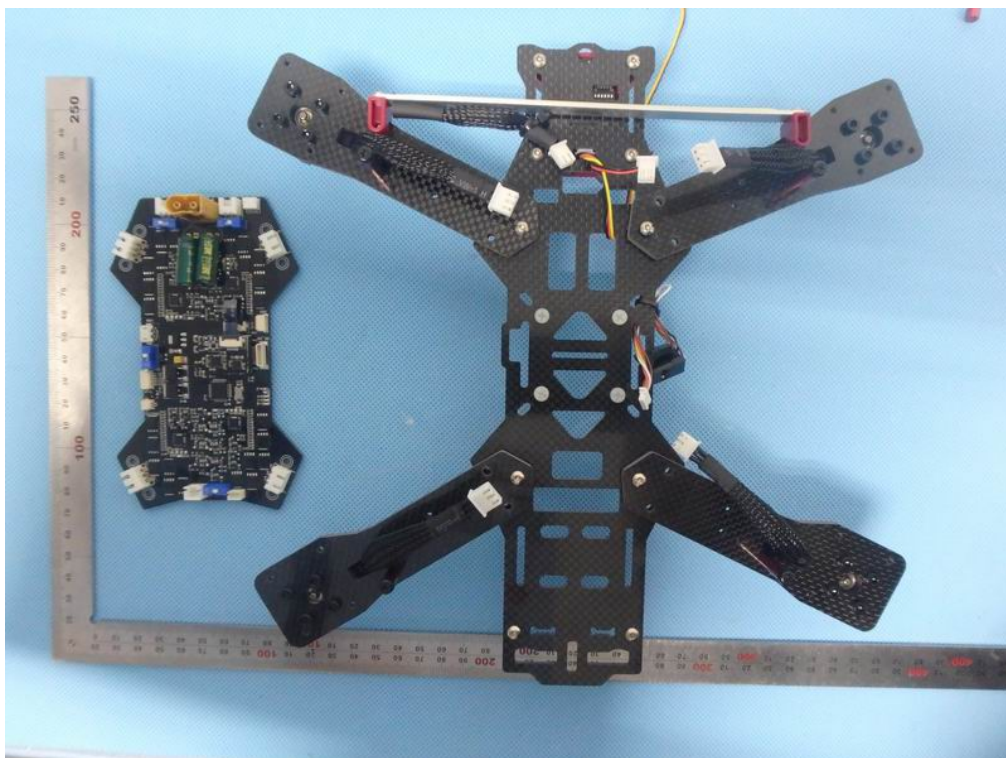
OPEN VIEW OF EUT



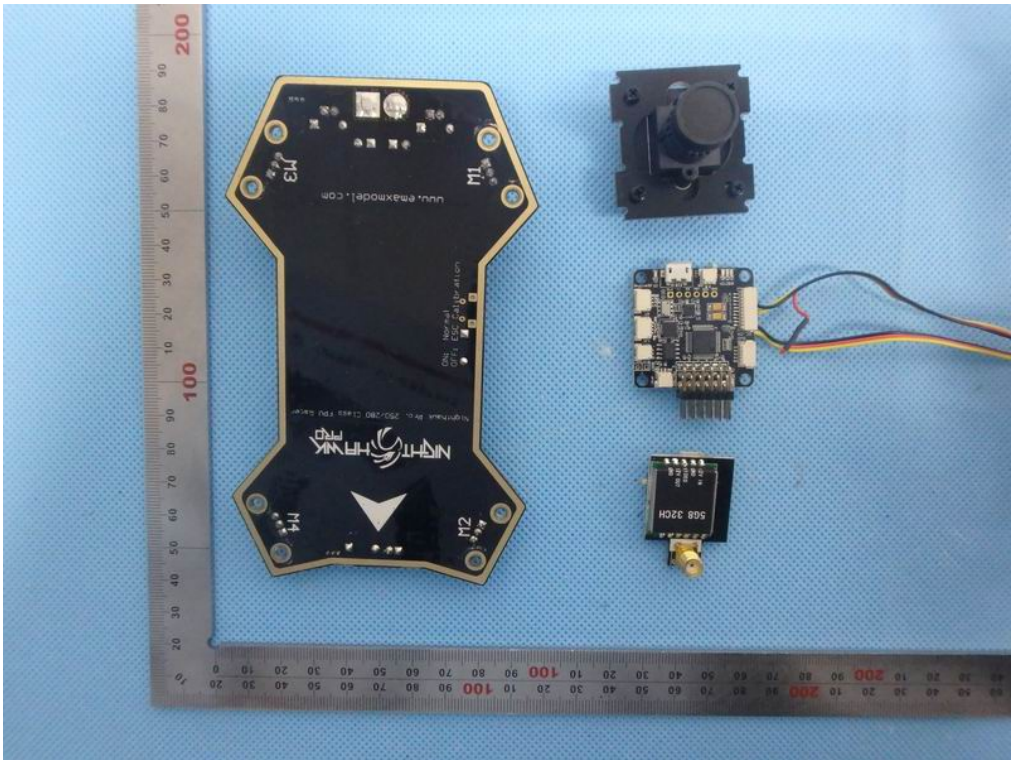
INTERNAL VIEW OF EUT-1



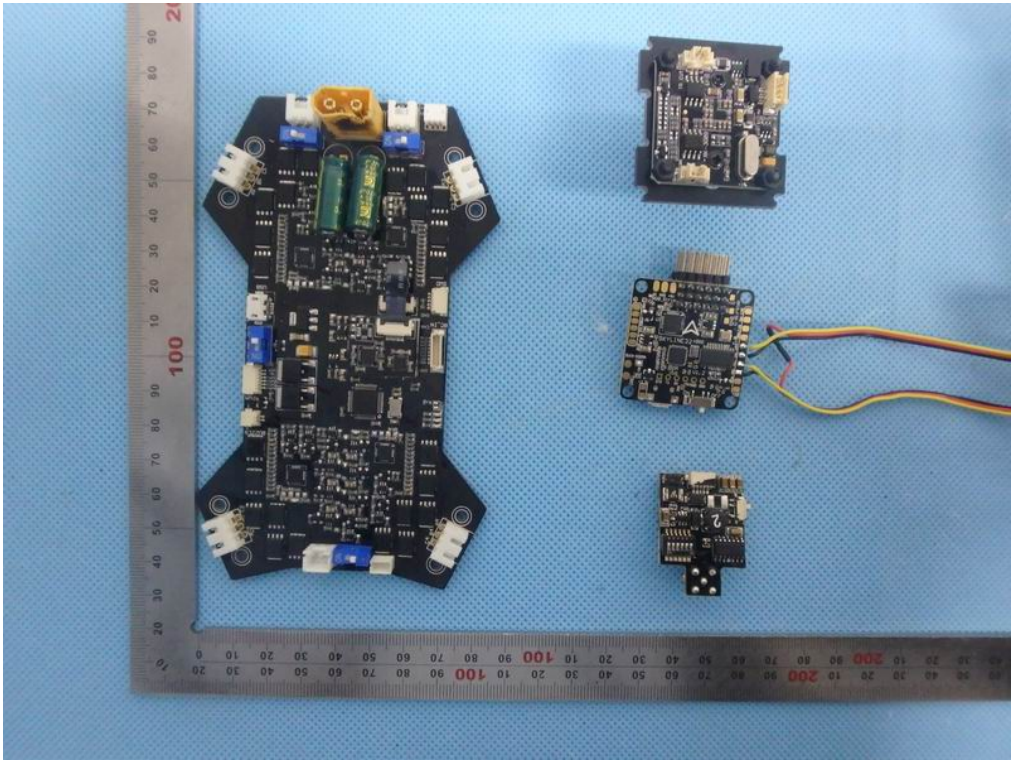
INTERNAL VIEW OF EUT-2



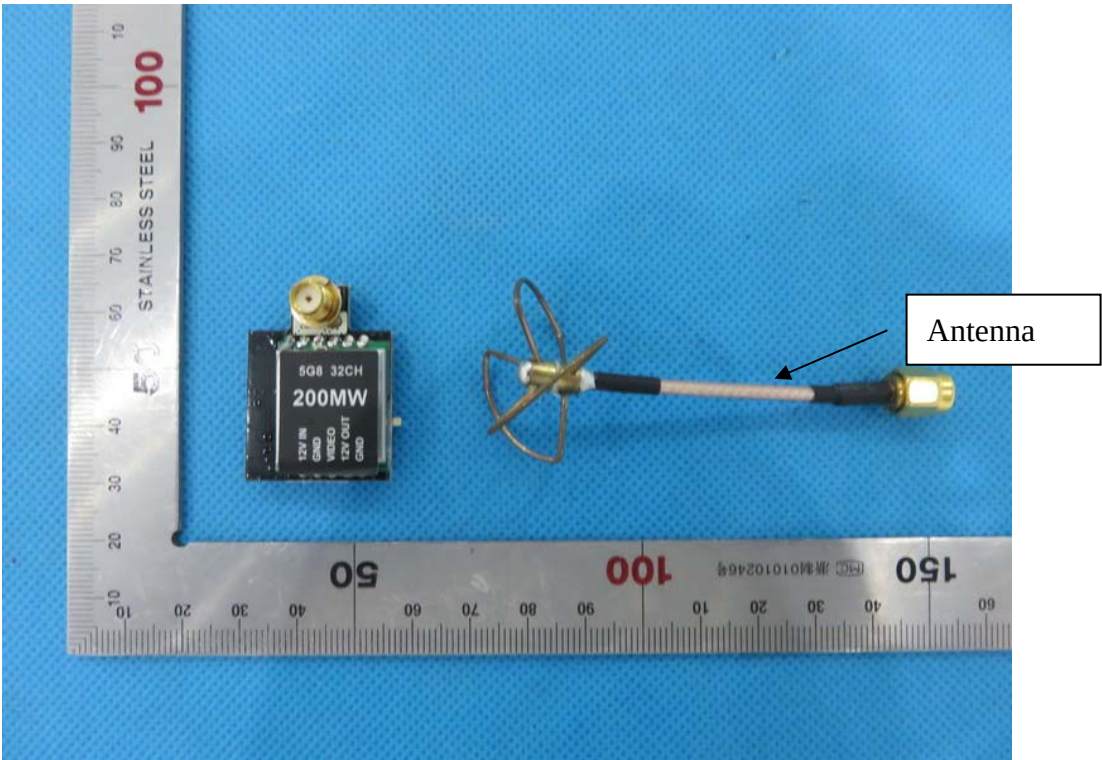
INTERNAL VIEW OF EUT-3



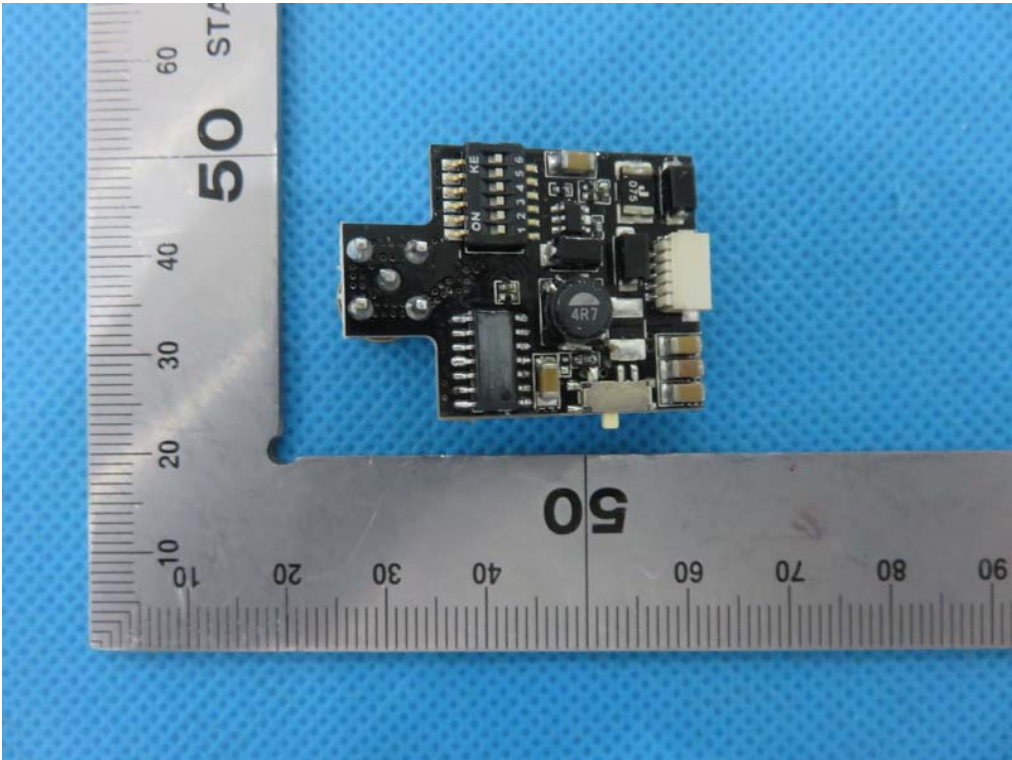
INTERNAL VIEW OF EUT-4



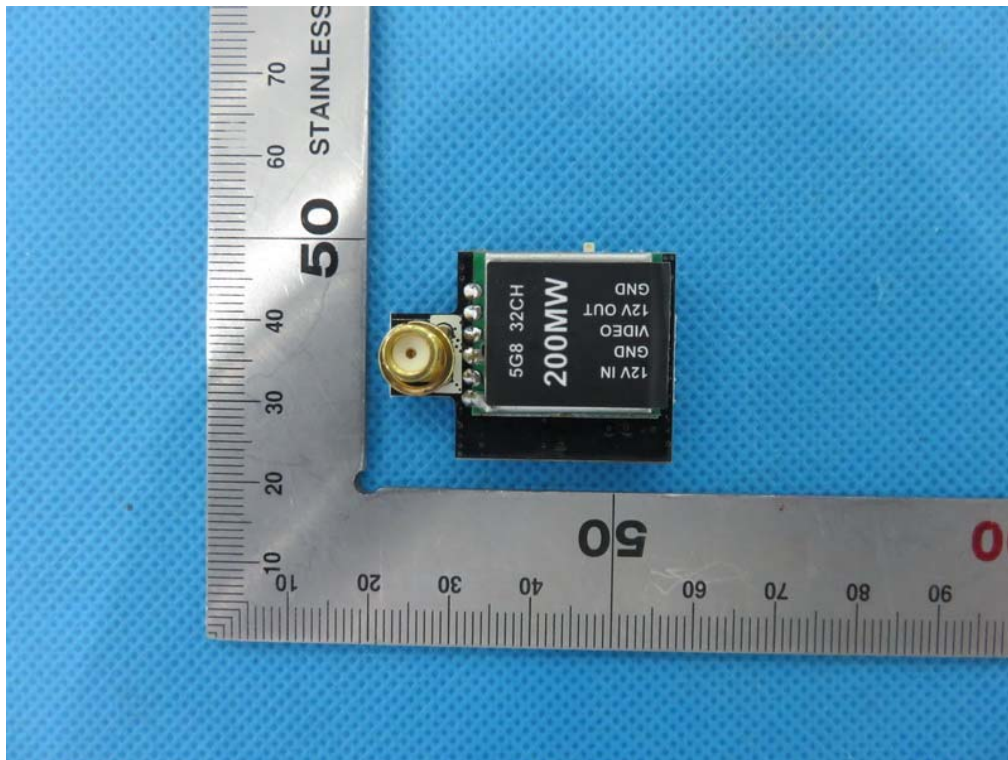
INTERNAL VIEW OF EUT-5



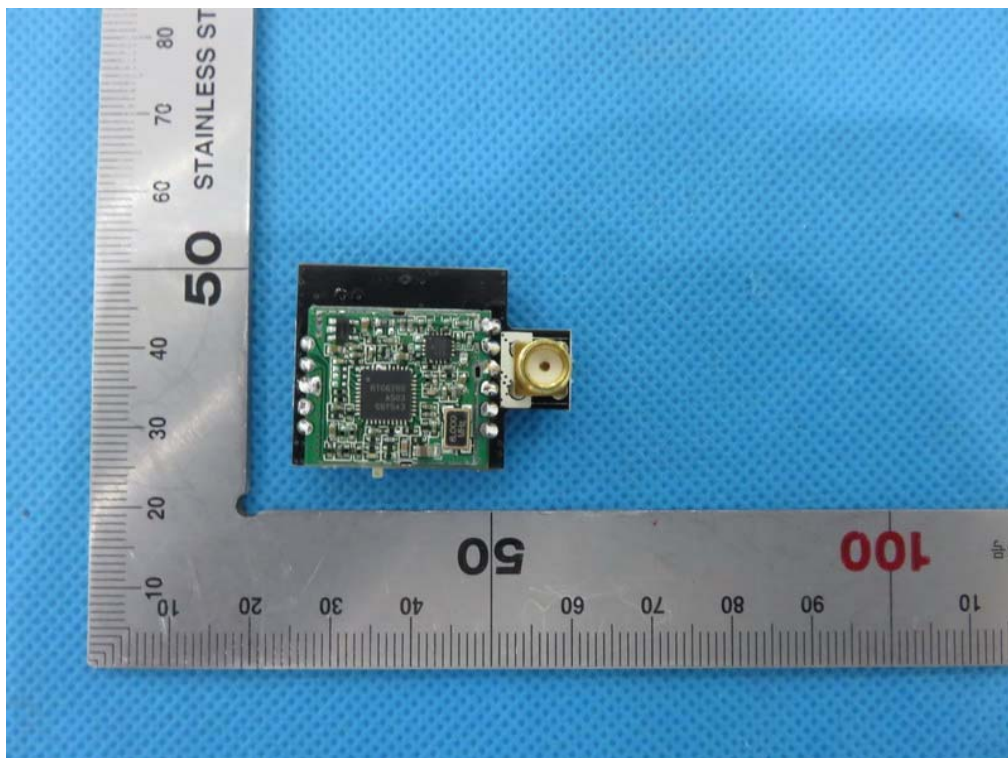
INTERNAL VIEW OF EUT-6



INTERNAL VIEW OF EUT-7



INTERNAL VIEW OF EUT-8



----END OF REPORT----