

CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID/IC TEST REPORT

# TEST REPORT NUMBER : CGZ3160104-00004-EFI



CENTRE OF TESTING SERVICE CO., LTD. A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China





TEST REPORT For FCC ID/IC				
47 CFR PART 15 OCT, 2015; RSS-210 Issue 8				
Report Reference No CGZ3160104-00004-EFI				
Date of issue 11 January 2016				
Testing Laboratory Name CENTRE OF TESTING SERVICE CO., LTD.				
Address A101, No.65, Zhuji Highway,Tianhe District, Guangzhou, China				
Testing location/ procedure Full application of Harmonised standards ■				
Partial application of Harmonised standards $\Box$				
Other standard testing method $\Box$				
Applicant's name Horizon Hobby, LLC				
Address IL 61822, USA				
Test specification				
Standard 47 CFR PART 15 OCT, 2015; RSS-210 Issue 8; RSS-Gen Issue 4				
ANSI C63.10:2013				
Test Report Form No CTSEMC-1.0				
TRF Originator CENTRE OF TESTING SERVICE CO., LTD.				
Master TRF Dated 2009-01				
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Test item description Blade Inductrix 200 Quadcopter				
Trade Mark Blade				
Manufacturer Horizon Hobby, LLC				
Model/Type reference BLH9080				
Ratings Battery 11.1V				
Operating Frequency 2404.0MHz ~2476.0MHz				
Result Positive				

Compiled by:

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# FCC ID/IC -- TEST REPORT

Test Report No. :	CGZ3160104-00004-EFI	<u>11 January 2016</u> Date of issue	
Type / Model	BLH9080		
EUT	Blade Inductrix 200 Quadcopter		
Applicant	Horizon Hobby, LLC		
Address Telephone Fax Contact	4105 Fieldstone Road, Champaign, IL 61822 +1-217 4033657 / Erin Hassan	2, USA	
Manufacturer	Horizon Hobby, LLC		
Address	4105 Fieldstone Road, Champaign, IL 61822 +1-217 4033657	2, USA	
Fax Contact	/ Erin Hassan		
Factory	Yeeunc International Co., Ltd.		
Address	/		
Telephone			
Fax Contact	/ /		

Test Result according to the standards on page 1: PASSED

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1.TEST STANDARDS

The tests were performed according to following standards:

■ 47 CFR PART 15 OCT, 2015 ■ RSS-210 Issue 8 ■ RSS-Gen Issue 4

ANSI C63.10:2013

## 2.SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	04 January 2016
Testing commenced on	04~11 January 2016
Testing concluded on	11 January 2016

#### 2.2 FINAL ASSESSMENT

The FCC/IC requirements pertaining to the technical standards and tested operation modes are

fulfilled.

□ - **not** fulfilled.

The equipment under test

- fulfils the FCC/IC requirements cited on page 1.
- **does not** fulfil the FCC/IC requirements cited on page 1.

# 3.EQUIPMENT UNDER TEST

#### 3.1 Power supply system utilised

Power supply voltage : ■ Battery 11.1V

## 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: **1** Serial number: Prototype

#### 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- □ TX- Y position
- □ TX- Zposition
- TX- X position

Operation mode 1:TX-X Position Low (2404MHz) , TX-X Position Middle (2440MHz ),

TX-X Position High (2476MHz)

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case; so only these test results be recorded in the test report.

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## 3.4 EUT configuration

#### 3.4.1. Description of configuration (EUT)

Description	:	Blade Inductrix 200 Quadcopter
Model Number	:	BLH9080
Operation frequency	:	2404~ 2476 MHz ISM Band
Modulation Technology	:	DSSS Modulation
Antenna	:	Internal antenna, met requirement of FCC 15.203

#### 3.4.2. Tested Supporting System Details

N/A

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# 4.TEST ENVIRONMENT

## 4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

## 4.2 Test facility

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

#### CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

## **IC-Registration No.: 8374A**

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

## FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, 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.791995, July 13,2012.

#### 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

#### 4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

#### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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## **4.6 Measurement Uncertainty**

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

(1).This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 5. Summary of standards and results

## 5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION				
Description of Test Item	Standard	Results		
Conducted Emission Test	FCC Part 15 § 15.207 RSS-Gen Issue 4§ 7.2.4 ANSI C63.10:2013	N/A		
Radiated Emission Test	RSS-Gen Issue 4§ 7.2 RSS-210 Issue 8 § A2.9 FCC Part 15 C § 15.249 FCC Part 15 § 209 ANSI C63.10:2013	PASSED		
Receiver Spurious Emissions	RSS-Gen Issue 4§ 4.10 ANSI C63.10:2013	PASSED		
Band Edge Compliance Test	RSS-210 Issue 8 § 1.1 RSS-Gen Issue 4 § 8.10 FCC Part 15 C § 15.249 ANSI C63.10:2013	PASSED		
99% Bandwidth	RSS-Gen Issue 4 § 6.6 ANSI C63.10:2013	PASSED		
N/A is an abbreviation for Not Applicable.				

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## 6. Power Line Conducted Emission Test

## 6.1.Test Equipment

Conduc	ted Disturbance				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2015/10
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2015/10
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2015/10
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2015/10
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2015/10

## 6.2. Block Diagram of Test Setup



(EUT: Blade Inductrix 200 Quadcopter)

## 6.3. Power Line Conducted Emission Test Limits

## Standard:RSS-Gen:7.2.4,FCC Part 15 : 15.207,ANSI C63.10:2013

		Maximum RF Line Voltage		
Freau	lency	Quasi-Peak Level	Average Level	
		dB(μV)	dB(μV)	
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*	
500kHz	~ 5MHz	56	46	
5MHz	~ 30MHz	60	50	

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

## **6.4.Test Procedure**

The Notebook Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

## 6.5. Power Line Conducted Emission Test Results

#### N/A

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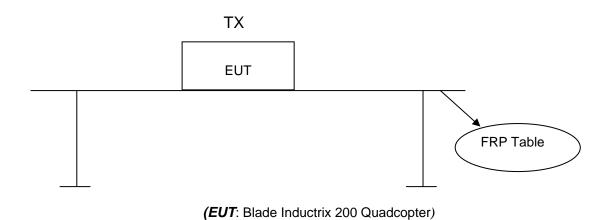
# 7. Radiated disturbance (electric field)

## 7.1.Test Equipment

Radia	Radiated disturbance (electric field)											
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.							
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2015/10							
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2015/03							
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03							
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2015/03							
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03							
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2015/10							

## 7.2.Block Diagram of Test Setup

#### 7.2.1 Block Diagram of connection between EUT and simulators



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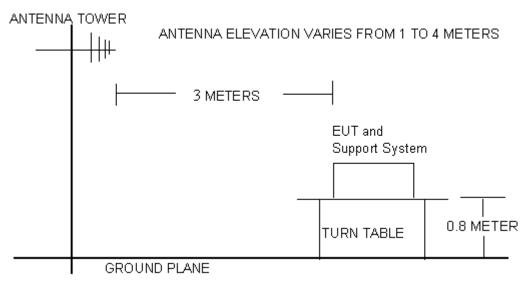
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#### 7.2.2 Anechoic Chamber Setup Diagram



#### 7.3.Radiated Emission Limit :

## Standard: FCC 15.249 , FCC 15.209; RSS-Gen:7.2; RSS-210 A2.9.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FRE	QUEN	CY	DISTANCE	FIELD STREN	GTHS LIMIT
	MHz		Meters	μV/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(μ 54.0 dB(μV)/n	

(1) Emission level dB $\mu$ V = 20 log Emission level  $\mu$ V/m Remark:

(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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#### 7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 2MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

#### 7.5.Radiated Emission Test Results

#### PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode:	TX – X Position Mode	Result:	- passed
Frequency range:	9KHz~30MHz		- not passed

No.	Frequency (MHz)	Factor (dB)	•	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
Rem	Remark: The test result reading value is to low, margin all > 10dB of the limit.									

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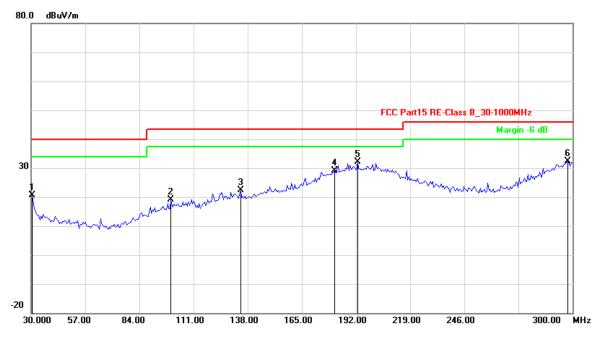
Fax: +86-20-38780406 E-mail: cts@cts-lab.com.cn





Channel:	TX –X Position	Result:	- passed
Test point:	Horizontal		I - not passed
Frequency range:	30MHz-1GHz		

EUT	Blade Inductrix 200 Quadcopter		
Test Condition	Ambient Temperature: 25°C Humidity: 56%		
Test distance	3 Meter		
Test Date:	04~11 January 2016		
Operator	Duke		
MODEL NO	BLH9080		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	30.5411	-16.11	36.79	20.68	40.00	-19.32	QP			
2	99.7996	-18.24	37.41	19.17	43.50	-24.33	QP			
3	134.4289	-16.10	38.46	22.36	43.50	-21.14	QP			
4	181.5030	-15.06	44.13	29.07	43.50	-14.43	QP			
5	192.8657	-13.78	46.00	32.22	43.50	-11.28	QP			
6	297.8357	-1.99	34.42	32.43	46.00	-13.57	QP			
Remark:	Remark: Other frequency mini margin all >6 dB of Limit									

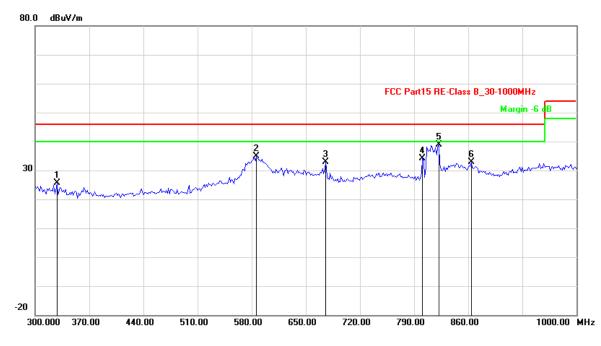
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	328.0561	-12.35	37.90	25.55	46.00	-20.45	QP			
2	586.1723	-5.59	40.36	34.77	46.00	-11.23	QP			
3	675.9519	-3.48	36.24	32.76	46.00	-13.24	QP			
4	800.8016	-3.22	37.38	34.16	46.00	-11.84	QP			
5	821.8437	-1.97	40.90	38.93	46.00	-7.07	QP			
6	863.9279	-0.71	33.50	32.79	46.00	-13.21	QP			
Remark	Remark: Other frequency mini margin all >6 dB of Limit									

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Channel:

Test point:

Frequency range:



Result:

- passed

- not passed

TX – X Position Low CH

Horizontal

1GHz-26.5GHz



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2404.00	-6.83	94.28	87.45	114.00	-26.55	Peak
2	2404.00	-6.83	91.10	84.27	94.00	-9.73	AVG
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1749.499	-10.88	44.76	33.88	74.00	-40.12	peak
2	1749.499	-10.88	31.03	20.15	54.00	-33.85	AVG
3	5452.906	4.60	39.02	43.62	74.00	-30.38	peak
4	5452.906	4.60	24.04	28.64	54.00	-25.36	AVG
Remark	: Other frequer	ncy mini ma	rgin all >6 dB	of Limit			
					1		
Channe			sition Middle C	H	Result:	- passed	
<u>Fest poi</u>		Horizonta				- not passe	ed
-requer	icy range:	1GHz-26.8	GHZ				
No.	Froquencia	Factor	Reading	Level	Limit	Morain	Det.
	Frequency (MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	Margin (dB)	
1	2440.00	-6.62	93.86	87.24	114.00	-26.76	Peak
2	2440.00	-6.62	90.31	83.69	94.00	-10.31	AVG
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1925.852	-9.72	39.72	30.00	74.00	-44.00	peak
2	1925.852	-9.72	26.07	16.35	54.00	-37.65	AVG
3	5034.068	3.39	37.63	41.02	74.00	-32.98	peak
4	5034.068	3.39	23.09	26.48	54.00	-27.52	AVG
Remark	: Other frequer	ncy mini ma	rgin all >6 dB	of Limit			
Channe			sition High CH		Result:	- passed	
lest poi		Horizonta				- not passe	ed
-requer	icy range:	1GHz-26.8	5GHz				
Na		Feeter	Deeding		Limit	Marain	Det
No.	Frequency	Factor	Reading	Level (dBuV/m)	(dBuV/m)	Margin	Det.
1	(MHz) 2476.00	( <b>dB)</b> -6.40	(dBuV) 93.75	87.35	114.00	( <b>dB)</b> -26.65	Peak
2	2476.00	-6.40	89.84	83.44	94.00	-10.56	AVG
2	2470.00	0.40	00.04	00.11	04.00	10.00	////
No.	Frequency	Factor	Reading		Limit	Margin	Det.
1	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	nacl
1 2	1705.411	-11.17	38.32 24.79	27.15	74.00	-46.85	peak
2	1705.411	-11.17		13.62	54.00	-40.38	AVG
<u> </u>	5276.553 5276.553	4.09 4.09	36.54 22.48	40.63 26.57	74.00 54.00	-33.37 -27.43	peak AVG
			// 4X	1 / 1 / 1	- 54 111	-//4.1	I AV(-

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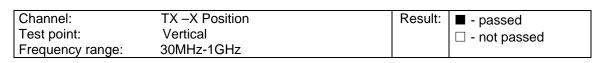
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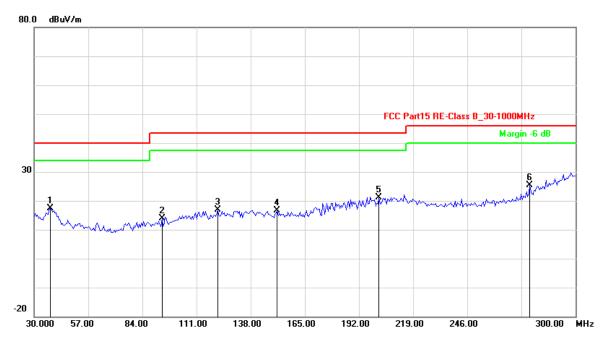
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	38.1162	-17.09	34.57	17.48	40.00	-22.52	QP			
2	93.8477	-18.79	32.57	13.78	43.50	-29.72	QP			
3	121.4429	-16.64	33.63	16.99	43.50	-26.51	QP			
4	151.2024	-15.96	32.49	16.53	43.50	-26.97	QP			
5	202.0641	-11.85	32.92	21.07	43.50	-22.43	QP			
6	277.2745	-7.93	33.35	25.42	46.00	-20.58	QP			
Remark:	Remark: Other frequency mini margin all >6 dB of Limit									

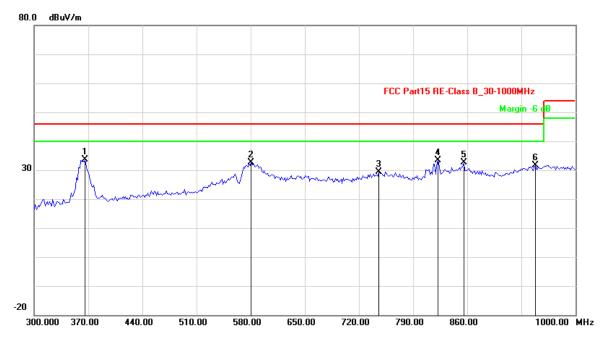
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	365.9319	-11.08	44.74	33.66	46.00	-12.34	QP			
2	580.5611	-5.60	38.18	32.58	46.00	-13.42	QP			
3	746.0922	-1.76	31.06	29.30	46.00	-16.70	QP			
4	821.8437	-1.97	35.24	33.27	46.00	-12.73	QP			
5	855.5110	-0.46	33.04	32.58	46.00	-13.42	QP			
6	948.0962	0.34	31.33	31.67	46.00	-14.33	QP			
Remark	Remark: Other frequency mini margin all >6 dB of Limit									

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Channel:

Test point:



TX – X Position Low CH

Vertical



Result: I - passed

□ - not passed

	nt.				- not passed		
-requer	ncy range:	1GHz-26.	GHZ				
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2404.00	-6.83	90.42	83.59	114.00	-30.41	Peak
2	2404.00	-6.83	88.45	81.62	94.00	-12.38	AVG
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1903.808	-9.86	47.27	37.41	74.00	-36.59	peak
2	1903.808	-9.86	32.22	22.36	54.00	-31.64	AVG
3	4989.980	3.26	38.15	41.41	74.00	-32.59	peak
4	4989.980	3.26	23.32	26.58	54.00	-27.42	AVG
Remark	: Other frequer	ncy mini ma	rgin all >6 dB o	of Limit			
	1-	TV V Da	sition Middle C				
Channel		-	sition iviladie C	н		- passed	
Test poi		Vertical 1GHz-26.				- not passe	ed
Tequei	ncy range:	1602-20.3	DGHZ				
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2440.00	-6.62	90.79	84.17	114.00	-29.83	Peak
2	2440.00	-6.62	87.84	81.22	94.00	-12.78	AVG
	•				•		
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1903.808	-9.86	37.89	28.03	74.00	-45.97	peak
2	1903.808	-9.86	24.45	14.59	54.00	-39.41	AVG
~	1000.000						
3	5188.377	3.84	36.47	40.31	74.00	-33.69	peak
		3.84 3.84		40.31 26.37	74.00 54.00		
3 4	5188.377	3.84	36.47 22.53	26.37		-33.69	
3 4 Remark	5188.377 5188.377 :: Other frequer	3.84 ncy mini ma	36.47 22.53 rgin all >6 dB o	26.37	54.00	-33.69	
3 4 Remark Channe	5188.377 5188.377 Cother frequer	3.84 ncy mini ma TX –X Pos	36.47 22.53	26.37	54.00	-33.69	
3 4 Remark Channe Test poi	5188.377 5188.377 Cother frequer	3.84 ncy mini ma TX –X Pos Vertical	36.47 22.53 rgin all >6 dB o sition High CH	26.37	54.00 Result: ∎	-33.69 -27.63	peak AVG
3 4 Remark Channe Test poi	5188.377 5188.377 Cother frequer	3.84 ncy mini ma TX –X Pos	36.47 22.53 rgin all >6 dB o sition High CH	26.37	54.00 Result: ∎	-33.69 -27.63 - passed	ÄVG
3 4 Remark Channe Test poi	5188.377 5188.377 c: Other frequer l: nt: ncy range: Frequency	3.84 ncy mini ma TX –X Pos Vertical 1GHz-26.9 <b>Factor</b>	36.47 22.53 rgin all >6 dB o sition High CH 5GHz Reading	26.37 of Limit Level	54.00 Result: ∎ □	-33.69 -27.63 - passed - not passe Margin	ÄVG
3 4 Remark Channel Fest poi Frequen	5188.377 5188.377 c: Other frequer l: nt: ncy range:	3.84 ncy mini ma TX –X Pos Vertical 1GHz-26.9	36.47 22.53 rgin all >6 dB o sition High CH 5GHz	26.37 of Limit	54.00 Result: ∎	-33.69 -27.63 - passed - not passe	AVG
3 4 Remark Channe Fest poi Frequen	5188.377 5188.377 Cother frequer I: nt: ncy range: Frequency (MHz)	3.84 ncy mini ma TX –X Pos Vertical 1GHz-26.9 Factor (dB)	36.47 22.53 rgin all >6 dB o sition High CH 5GHz Reading (dBuV)	26.37 of Limit Level (dBuV/m)	54.00 Result: ∎ □ Limit (dBuV/m)	-33.69 -27.63 - passed - not passe Margin (dB)	AVG
3 4 Remark Channel Test poi Frequen <b>No.</b> 1	5188.377 5188.377 :: Other frequer :: nt: ncy range: <b>Frequency</b> (MHz) 2476.00	3.84 TX –X Pos Vertical 1GHz-26.9 <b>Factor</b> (dB) -6.40	36.47 22.53 rgin all >6 dB o sition High CH 5GHz Reading (dBuV) 90.69	26.37 of Limit <b>Level</b> (dBuV/m) 84.29	54.00 Result: ■ □ Limit (dBuV/m) 114.00	-33.69 -27.63 - passed - not passe Margin (dB) -29.71	AVG ed Det.
3 4 Remark Channel Test poi Frequen	5188.377 5188.377 :: Other frequer :: nt: ncy range: <b>Frequency</b> (MHz) 2476.00	3.84 TX –X Pos Vertical 1GHz-26.9 <b>Factor</b> (dB) -6.40	36.47 22.53 rgin all >6 dB o sition High CH 5GHz Reading (dBuV) 90.69	26.37 of Limit <b>Level</b> (dBuV/m) 84.29	54.00 Result: ■ □ Limit (dBuV/m) 114.00	-33.69 -27.63 - passed - not passe Margin (dB) -29.71	AVG ed Det.
3 4 Remark Channe Test poi Frequen <b>No.</b> 1 2 <b>No.</b> 1	5188.377 5188.377 c: Other frequer l: nt: ncy range: <b>Frequency</b> (MHz) 2476.00 2476.00 <b>Frequency</b>	3.84 acy mini ma TX –X Pos Vertical 1GHz-26.4 Factor (dB) -6.40 -6.40 Factor	36.47 22.53 rgin all >6 dB o sition High CH 5GHz <b>Reading</b> (dBuV) 90.69 86.99 <b>Reading</b>	26.37 of Limit (dBuV/m) 84.29 80.59	54.00 Result: Limit (dBuV/m) 114.00 94.00 Limit	-33.69 -27.63 - passed - not passe Margin (dB) -29.71 -13.41 Margin	AVG Det. Peak AVG
3 4 Remark Channe Fest poi Frequen No. 1 2 No. 1 2	5188.377 5188.377 c: Other frequer l: nt: ncy range: <b>Frequency</b> (MHz) 2476.00 2476.00 <b>Frequency</b> (MHz)	3.84 acy mini ma TX –X Pos Vertical 1GHz-26.3 Factor (dB) -6.40 Factor (dB)	36.47 22.53 rgin all >6 dB o sition High CH 5GHz <b>Reading</b> (dBuV) 90.69 86.99 <b>Reading</b> (dBuV)	26.37 of Limit (dBuV/m) 84.29 80.59 Level (dBuV/m)	54.00 Result: ■ Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m)	-33.69 -27.63 - passed - not passe Margin (dB) -29.71 -13.41 Margin (dB)	AVG Det. Peak AVG
3 4 Remark Channe Test poi Frequen <b>No.</b> 1 2 <b>No.</b> 1	5188.377 5188.377 : Other frequer : nt: ncy range: <b>Frequency</b> (MHz) 2476.00 2476.00 <b>Frequency</b> (MHz) 1837.675	3.84 TX –X Pos Vertical 1GHz-26.4 Factor (dB) -6.40 -6.40 Factor (dB) -10.30	36.47 22.53 rgin all >6 dB o sition High CH 5GHz <b>Reading</b> (dBuV) 90.69 86.99 <b>Reading</b> (dBuV) 39.04	26.37 of Limit <b>Level</b> (dBuV/m) 84.29 80.59 <b>Level</b> (dBuV/m) 28.74	54.00         Result:       ■         Limit       □         (dBuV/m)       114.00         94.00       □         Limit       (dBuV/m)         74.00       □	-33.69 -27.63 - passed - not passe Margin (dB) -29.71 -13.41 Margin (dB) -45.26	AVG ed Det. Peak AVG Det.

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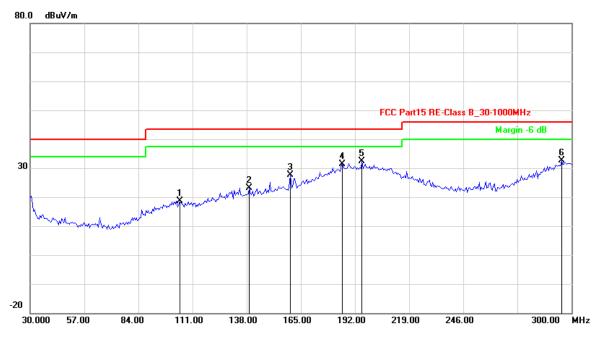
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Channel:	RX	Result:	- passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-1GHz		

EUT	Blade Inductrix 200 Quadcopter
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~11 January 2016
Operator	Duke
MODEL NO	BLH9080



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	104.6693	-17.79	36.50	18.71	43.50	-24.79	QP	
2	139.2986	-16.06	39.22	23.16	43.50	-20.34	QP	
3	159.8597	-15.97	43.65	27.68	43.50	-15.82	QP	
4	185.8317	-14.71	46.21	31.50	43.50	-12.00	QP	
5	195.5711	-13.21	45.62	32.41	43.50	-11.09	QP	
6	295.1303	-2.71	35.28	32.57	46.00	-13.43	QP	
Remark:	Remark: Other frequency mini margin all >6 dB of Limit							

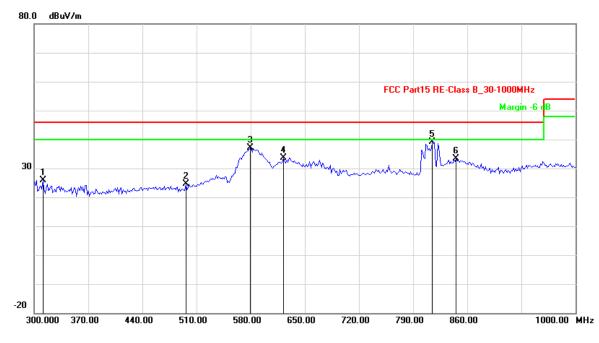
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	311.2224	-13.11	38.97	25.86	46.00	-20.14	QP
2	496.3928	-8.14	32.75	24.61	46.00	-21.39	QP
3	579.1583	-5.60	42.80	37.20	46.00	-8.80	QP
4	622.6453	-4.50	38.12	33.62	46.00	-12.38	QP
5	814.8297	-2.39	41.61	39.22	46.00	-6.78	QP
6	845.6914	-0.55	34.04	33.49	46.00	-12.51	QP
Remark:	: Other frequen	icy mini ma	rgin all >6 dB o	of Limit			

Channel:	RX	Result:	- passed
Test point:	Horizontal		in the passed is a second s
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	1484.970	-12.67	37.44	24.77	74.00	-49.23	peak		
2	1484.970	-12.67	24.02	11.35	54.00	-42.65	AVG		
3	5122.244	3.64	35.52	39.16	74.00	-34.84	peak		
4	5122.244	3.64	20.95	24.59	54.00	-29.41	AVG		
Remark:	Remark: Other frequency mini margin all >6 dB of Limit								

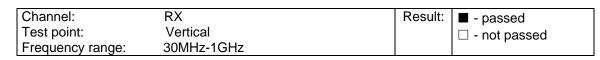
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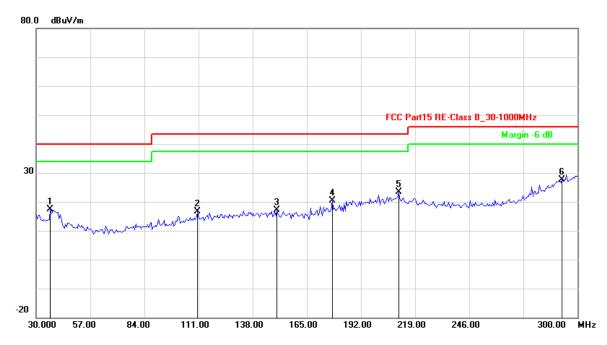
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	37.0341	-16.95	34.38	17.43	40.00	-22.57	QP	
2	110.6212	-17.26	33.89	16.63	43.50	-26.87	QP	
3	150.1202	-15.96	33.07	17.11	43.50	-26.39	QP	
4	177.7154	-15.36	35.86	20.50	43.50	-23.00	QP	
5	210.7214	-10.24	33.54	23.30	43.50	-20.20	QP	
6	292.4248	-3.43	31.09	27.66	46.00	-18.34	QP	
Remark:	Remark: Other frequency mini margin all >6 dB of Limit							

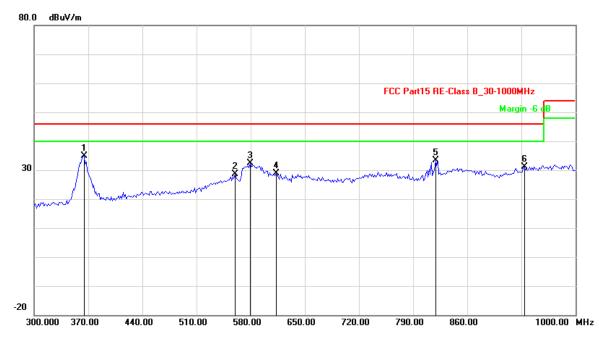
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	364.5291	-11.11	46.09	34.98	46.00	-11.02	QP
2	559.5190	-5.66	34.27	28.61	46.00	-17.39	QP
3	579.1583	-5.60	37.90	32.30	46.00	-13.70	QP
4	612.8257	-4.95	33.95	29.00	46.00	-17.00	QP
5	819.0381	-2.14	35.45	33.31	46.00	-12.69	QP
6	934.0681	-0.28	31.30	31.02	46.00	-14.98	QP
Remark	: Other frequen	icy mini ma	argin all >6 dB o	of Limit			

Channel:	RX	Result:	- passed
Test point:	Vertical		□ - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	1573.146	-12.05	38.73	26.68	74.00	-47.32	peak		
2	1573.146	-12.05	24.40	12.35	54.00	-41.65	AVG		
3	6114.229	6.83	38.76	45.59	74.00	-28.41	peak		
4	6114.229	6.83	23.35	30.18	54.00	-23.82	AVG		
Remark	Remark: Other frequency mini margin all >6 dB of Limit								

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# 8.Band Edge Compliance test

## 8.1. Test Equipment

Band Edge Compliance test					
ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2015/10
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2015/03
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03

## 8.2. Test Information

EUT	Blade Inductrix 200 Quadcopter
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~11 January 2016
Operator	Duke
MODEL NO	BLH9080

## 8.3. Test procedure

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. 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=1KHz(1/on Time) / Sweep=AUTO

## 8.4. Test Results

### PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Test Mode	Channel	Test Result Highest Emission (dBuv/m)			
	Marked Frequency	Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	50.03	24.79	47.94	22.96
	2400MHz	60.18	39.22	57.44	36.24
High Channel	2483.5MHz	55.03	26.23	51.82	23.73
	2500MHz	45.46	22.96	42.24	20.71

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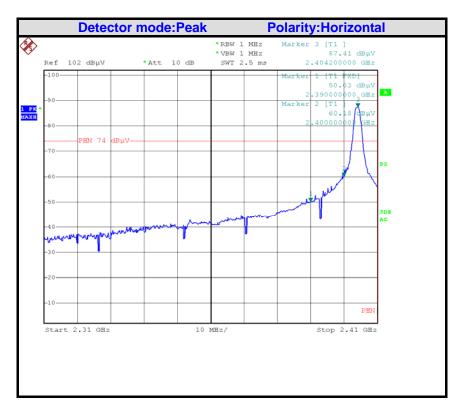
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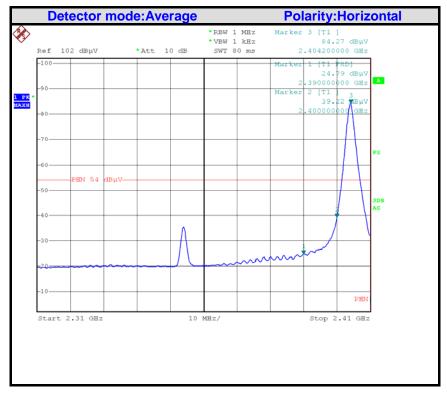
ay, Tianhe District, Guangzhou, China 2 lines) Fax: +86-20-38780406 i33471 E-mail: cts@cts-lab.com.cn



# CTS

## Band Edges (Low)





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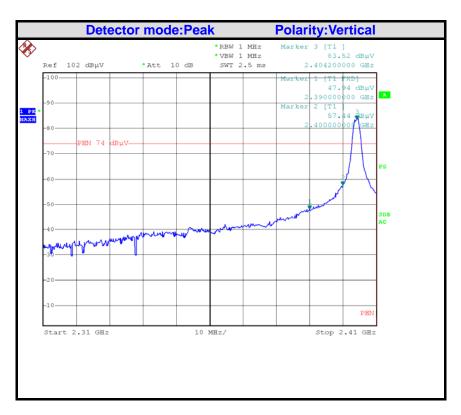
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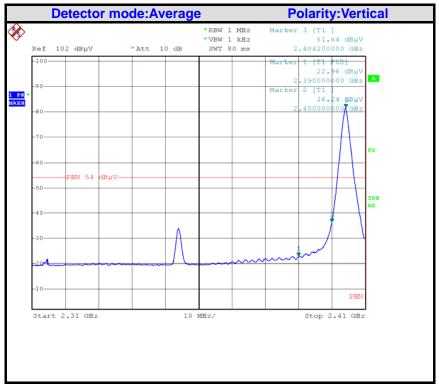
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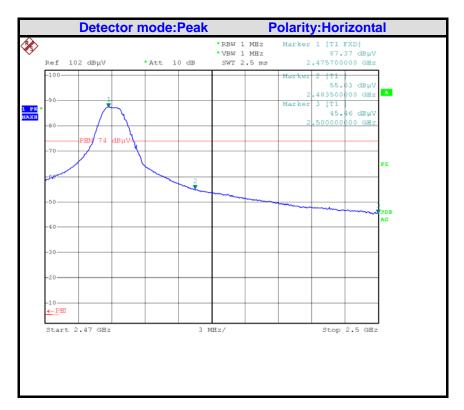
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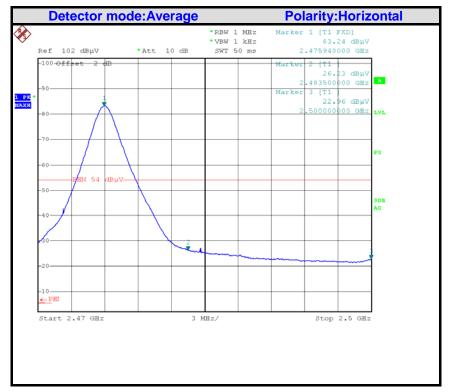
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## **Band Edges (High)**





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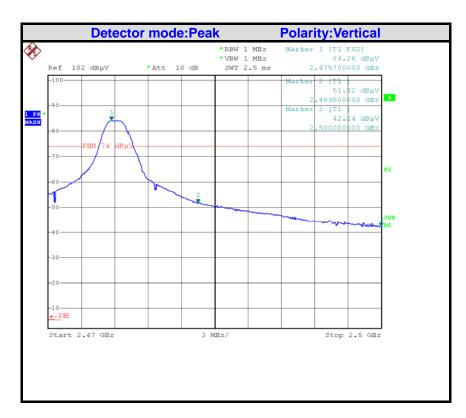
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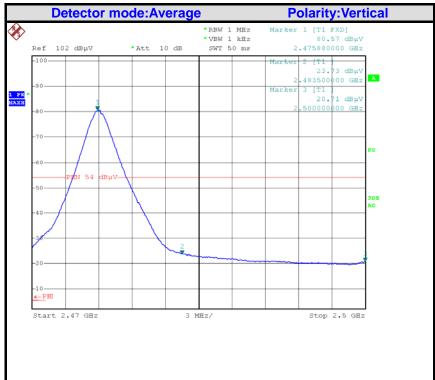
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# CTS





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## 9.99% bandwidth

## 9.1 Test procedure

According to RSS-210 A1.1.3 and RSS-Gen 4.6.1 The Receiver output is connected to the spectrum analyzer. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The sweep time is coupled.

#### 9.2. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2015/03/30
2	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03/25

#### 9.3. Test Results

PASSED.

Channel	Frequency (MHz)	Bandwidth (MHz)
Low	2404	1.208
Middle	2440	1.204
High	2476	1.224

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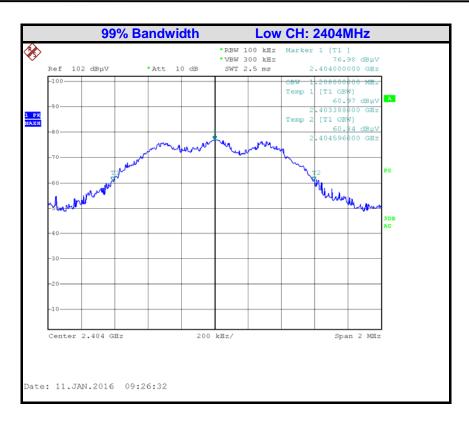
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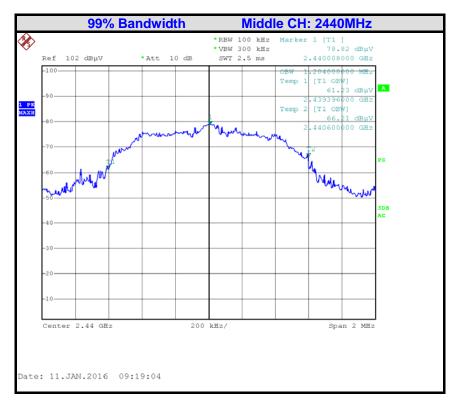
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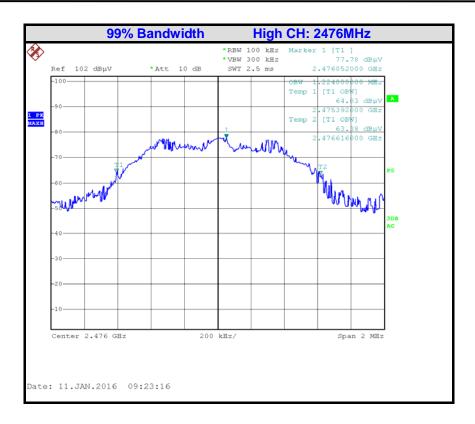
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## 10. Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: Blade Inductrix 200 Quadcopter Model name: BLH9080

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