



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID/IC TEST REPORT

TEST REPORT NUMBER : CGZ3160726-01331-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, 2016; RSS-210 Issue 8

Report Reference No.	CGZ3160726-01331-EFI
Date of issue	04 November 2016
Testing Laboratory Name	CENTRE OF TESTING SERVICE CO., LTD.
Address	A101, No.65, Zhiji Highway, Tianhe District, Guangzhou, China
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	RC LEADING TOYS FACTORY
Address	YUANLIN THIRD ROAD, HUAINAN INDUSTRIAL AREA, LIANXIA TOWN, CHENGHAI DISTRICT, SHANTOU, GUANGDONG, CHINA
Test specification	Standard: 47 CFR PART 15 OCT, 2016; 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	2.4G camera drone
Trade Mark	RC LEADING
Manufacturer	China Topwin Industry Co.,Ltd.
Model/Type reference	101
Ratings	Battery 1.5V*2
Operating Frequency	2450.0MHz ~2459.0MHz
Result	Positive

Compiled by:

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Supervised by:

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Approved by:

Vincent yao / Manager

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FCC ID/IC -- T E S T R E P O R T

Test Report No. : CGZ3160726-01331-EFI

04 November 2016
 Date of issue

Type / Model..... 101

EUT..... 2.4G camera drone

Applicant..... RC LEADING TOYS FACTORY
 YUANLIN THIRD ROAD, HUAINAN INDUSTRIAL AREA,
 Address..... LIANXIA TOWN, CHENGHAI DISTRICT, SHANTOU,
 GUANGDONG, CHINA
 Telephone..... +86-754-85638996
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 Contact..... Jimmy Lin

Manufacturer..... China Topwin Industry Co.,Ltd.
 Address..... /
 Telephone..... /
 Fax..... /
 Contact..... /

Factory..... RC LEADING TOYS FACTORY
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 Fax..... +86-754-85638995
 Contact..... Jimmy Lin

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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TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
1.TEST STANDARDS.....	5
2.SUMMARY.....	5
2.1 GENERAL REMARKS	5
2.2 FINAL ASSESSMENT.....	5
3.EQUIPMENT UNDER TEST	5
3.1 POWER SUPPLY SYSTEM UTILISED.....	5
3.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT).....	5
3.3 EUT OPERATION MODE	5
3.4 EUT CONFIGURATION.....	6
4.TEST ENVIRONMENT.....	7
4.1 ADDRESS OF THE TEST LABORATORY.....	7
4.2 TEST FACILITY	7
4.3 ENVIRONMENTAL CONDITIONS	7
4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT	7
4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY	7
4.6 MEASUREMENT UNCERTAINTY.....	8
5.SUMMARY OF STANDARDS AND RESULTS.....	8
5.1.DESCRIPTION OF STANDARDS AND RESULTS	8
6.POWER LINE CONDUCTED EMISSION TEST	9
6.1.TEST EQUIPMENT.....	9
6.2. BLOCK DIAGRAM OF TEST SETUP.....	9
6.3. POWER LINE CONDUCTED EMISSION TEST LIMITS	9
6.4.TEST PROCEDURE	9
6.5. POWER LINE CONDUCTED EMISSION TEST RESULTS	9
7.RADIATED DISTURBANCE (ELECTRIC FIELD)	10
7.1.TEST EQUIPMENT.....	10
7.2.BLOCK DIAGRAM OF TEST SETUP	10
7.3.RADIATED EMISSION LIMIT :	11
7.4.TEST PROCEDURE	12
7.5.RADIATED EMISSION TEST RESULTS	12
8.BAND EDGE COMPLIANCE TEST.....	20
8.1. TEST EQUIPMENT	20

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8.2. TEST INFORMATION.....	20
8.3. TEST PROCEDURE.....	20
8.4. TEST RESULTS	20
9. 99% BANDWIDTH	25
9.1 TEST PROCEDURE.....	25
9.2. TEST EQUIPMENT.....	25
9.3. TEST RESULTS	25
10. DEVIATION TO TEST SPECIFICATIONS	28

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1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2016
- RSS-210 Issue 8
- RSS-Gen Issue 4
- ANSI C63.10:2013

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	26 July 2016
Testing commenced on	26 July ~ 03 August 2016
Testing concluded on	04 November 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

- - fulfills 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 1.5V*2

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 (2450MHz) , TX-X Position Middle (2455MHz) ,
TX-X Position High (2459MHz)

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	:	2.4G camera drone
Model Number	:	101
Operation frequency	:	2450~ 2459 MHz ISM Band
Modulation Technology	:	GFSK Modulation
Antenna	:	Internal antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

N/A

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)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	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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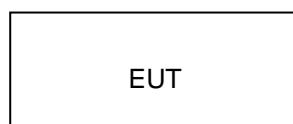
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6. Power Line Conducted Emission Test

6.1. Test Equipment

Conducted 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: 2.4G camera drone)

6.3. Power Line Conducted Emission Test Limits

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

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level 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 EUT 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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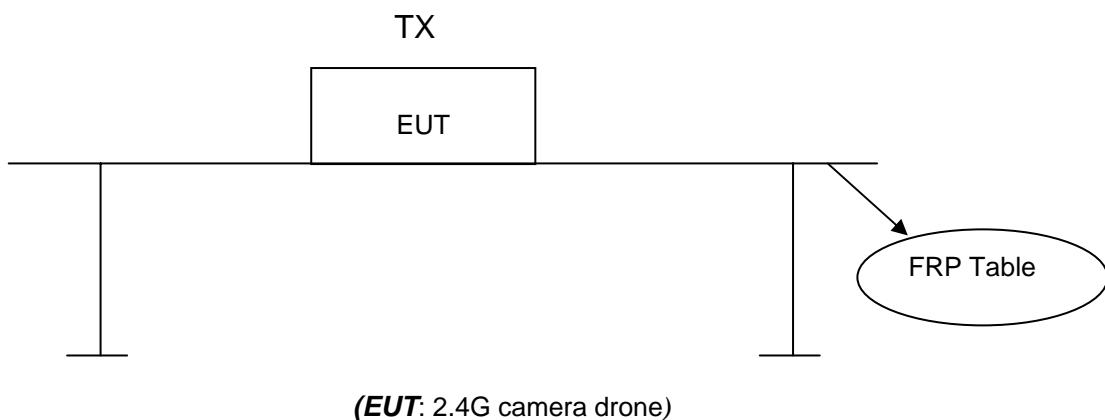
7. Radiated disturbance (electric field)

7.1. Test Equipment

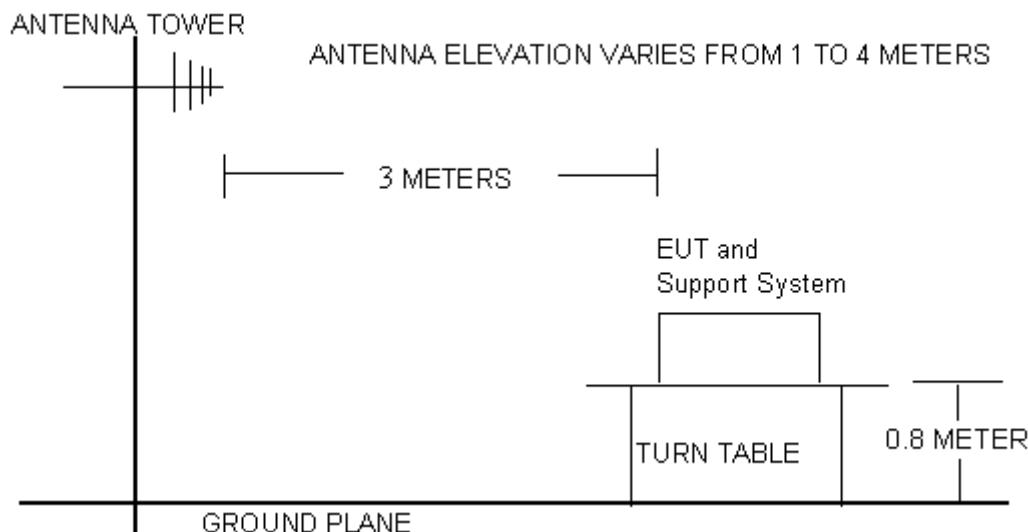
Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2015/10
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2016/03
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03
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



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

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		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(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 (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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7.4. 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 with 1MHz 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.



Test Mode:	TX -X Position Mode	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	9KHz~30MHz		<input type="checkbox"/> - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Remark: The test result reading value is to low, margin all > 20dB of the limit.							

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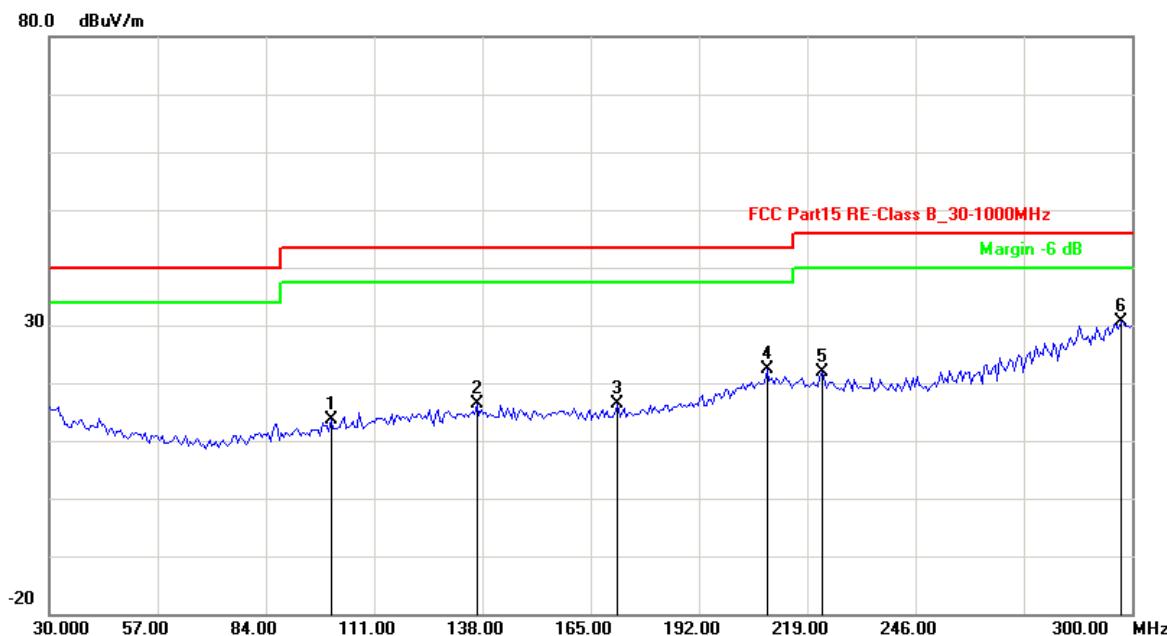
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Channel:	TX -X Position	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-1GHz		

EUT	2.4G camera drone
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	26 July ~ 03 August 2016
Operator	Duke
MODEL NO	101



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	100.3407	-18.19	31.79	13.60	43.50	-29.90	QP
2	136.5932	-16.08	32.40	16.32	43.50	-27.18	QP
3	171.7635	-15.84	32.31	16.47	43.50	-27.03	QP
4	209.0982	-10.38	32.68	22.30	43.50	-21.20	QP
5	222.6253	-11.11	33.08	21.97	46.00	-24.03	QP
6	297.2946	-2.14	32.77	30.63	46.00	-15.37	QP

Remark: Other frequency mini margin all >10 dB of Limit

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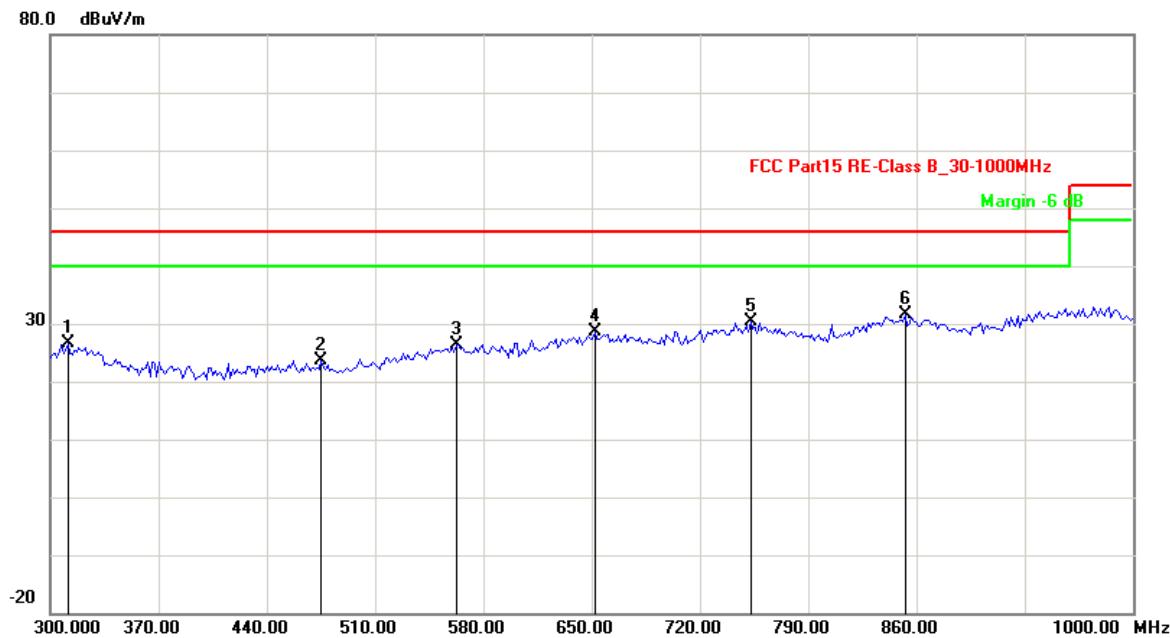
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	311.2224	-13.11	39.70	26.59	46.00	-19.41	QP
2	475.3507	-8.29	31.96	23.67	46.00	-22.33	QP
3	562.3246	-5.65	32.01	26.36	46.00	-19.64	QP
4	652.1042	-3.25	31.82	28.57	46.00	-17.43	QP
5	753.1062	-1.70	31.99	30.29	46.00	-15.71	QP
6	852.7054	-0.37	31.99	31.62	46.00	-14.38	QP

Remark: Other frequency mini margin all >10 dB of Limit



Channel:	TX -X Position Low CH	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2450.00	-6.56	83.79	77.23	114.00	-36.77	Peak
2	2450.00	-6.56	80.62	74.06	94.00	-19.94	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1659.319	-11.48	39.89	28.41	74.00	-45.59	peak
2	1659.319	-11.48	26.10	14.62	54.00	-39.38	AVG
3	4155.311	0.35	37.79	38.14	74.00	-35.86	peak
4	4155.311	0.35	24.73	25.08	54.00	-28.92	AVG

Remark: Other frequency mini margin all >20 dB of Limit

Channel:	TX -X Position Middle CH	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2455.00	-6.53	83.79	77.26	114.00	-36.74	Peak
2	2455.00	-6.53	81.15	74.62	94.00	-19.38	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3684.369	-1.10	36.84	35.74	74.00	-38.26	peak
2	3684.369	-1.10	24.62	23.52	54.00	-30.48	AVG
3	5120.741	3.64	38.36	42.00	74.00	-32.00	peak
4	5120.741	3.64	25.99	29.63	54.00	-24.37	AVG

Remark: Other frequency mini margin all >20 dB of Limit

Channel:	TX -X Position High CH	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2459.00	-6.50	83.95	77.45	114.00	-36.55	Peak
2	2459.00	-6.50	80.82	74.32	94.00	-19.68	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4673.347	2.21	37.25	39.46	74.00	-34.54	peak
2	4673.347	2.21	23.96	26.17	54.00	-27.83	AVG
3	7593.186	10.49	37.78	48.27	74.00	-25.73	peak
4	7593.186	10.49	24.36	34.85	54.00	-19.15	AVG

Remark: Other frequency mini margin all >20 dB of Limit

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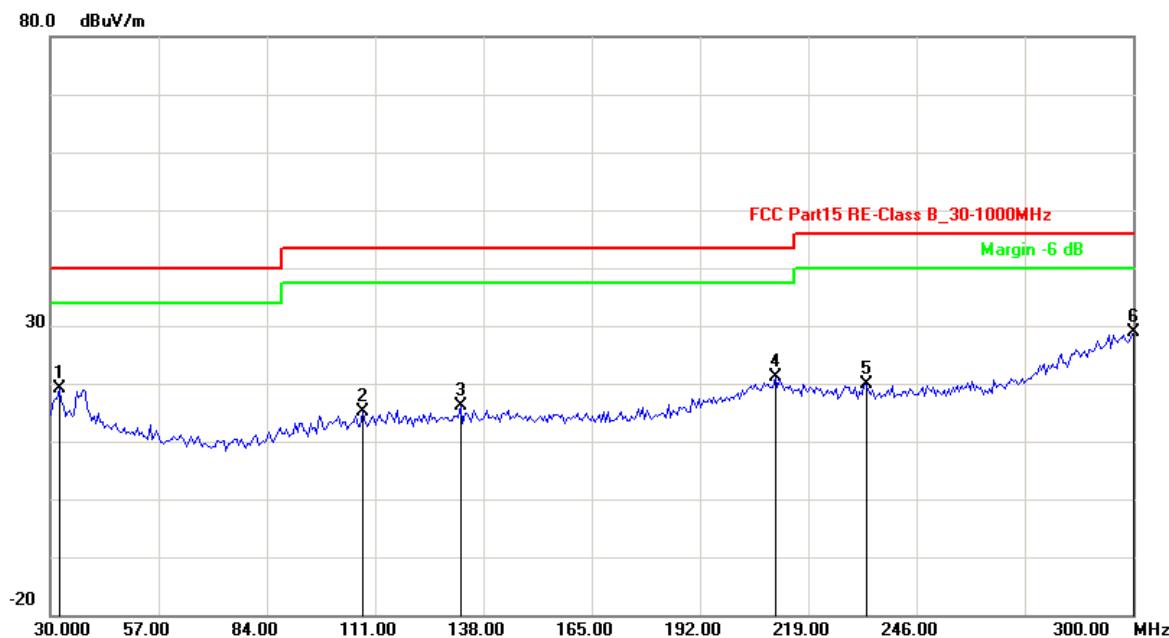
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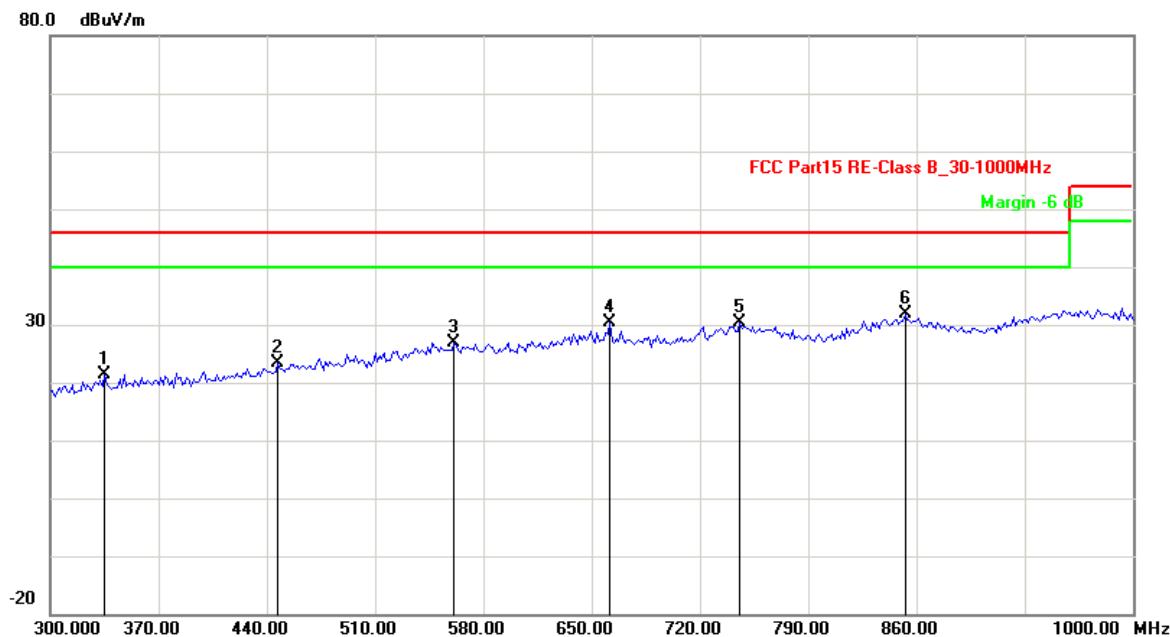
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Channel:	TX -X Position	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHz-1GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.1643	-16.32	35.43	19.11	40.00	-20.89	QP
2	107.9158	-17.49	32.57	15.08	43.50	-28.42	QP
3	132.2645	-16.12	32.23	16.11	43.50	-27.39	QP
4	210.7214	-10.24	31.26	21.02	43.50	-22.48	QP
5	233.4469	-11.62	31.50	19.88	46.00	-26.12	QP
6	300.0000	-1.42	30.29	28.87	46.00	-17.13	QP

Remark: Other frequency mini margin all >10 dB of Limit



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.0701	-12.03	33.44	21.41	46.00	-24.59	QP
2	447.2946	-8.57	31.97	23.40	46.00	-22.60	QP
3	560.9218	-5.65	32.58	26.93	46.00	-19.07	QP
4	661.9238	-3.34	33.66	30.32	46.00	-15.68	QP
5	746.0922	-1.76	32.20	30.44	46.00	-15.56	QP
6	852.7054	-0.37	32.17	31.80	46.00	-14.20	QP

Remark: Other frequency mini margin all >10 dB of Limit



Channel:	TX -X Position Low CH	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2450.00	-6.56	87.41	80.85	114.00	-33.15	Peak
2	2450.00	-6.56	83.10	76.54	94.00	-17.46	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1847.695	-10.24	40.81	30.57	74.00	-43.43	peak
2	1847.695	-10.24	28.66	18.42	54.00	-35.58	AVG
3	4037.575	-0.08	37.20	37.12	74.00	-36.88	peak
4	4037.575	-0.08	24.44	24.36	54.00	-29.64	AVG

Remark: Other frequency mini margin all >20 dB of Limit

Channel:	TX -X Position Middle CH	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2455.00	-6.53	87.10	80.57	114.00	-33.43	Peak
2	2455.00	-6.53	82.19	75.66	94.00	-18.34	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1941.884	-9.61	38.93	29.32	74.00	-44.68	peak
2	1941.884	-9.61	24.64	15.03	54.00	-38.97	AVG
3	3849.198	-0.64	37.05	36.41	74.00	-37.59	peak
4	3849.198	-0.64	24.16	23.52	54.00	-30.48	AVG

Remark: Other frequency mini margin all >20 dB of Limit

Channel:	TX -X Position High CH	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2459.00	-6.50	86.39	79.89	114.00	-34.11	Peak
2	2459.00	-6.50	82.75	76.25	94.00	-17.75	AVG

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3802.104	-0.77	37.94	37.17	74.00	-36.83	peak
2	3802.104	-0.77	25.45	24.68	54.00	-29.32	AVG
3	5732.966	5.61	38.56	44.17	74.00	-29.83	peak
4	5732.966	5.61	25.86	31.47	54.00	-22.53	AVG

Remark: Other frequency mini margin all >20 dB of Limit

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8. Band Edge Compliance test

8.1. Test Equipment

Band Edge Compliance test					
Item	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	2016/03
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03

8.2. Test Information

EUT	2.4G camera drone
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	26 July ~ 03 August 2016
Operator	Duke
MODEL NO	101

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 step 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 Marked Frequency	Test Result Highest Emission (dBuv/m)			
		Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	20.31	18.71	22.88	18.64
	2400MHz	21.70	19.56	37.26	18.79
High Channel	2483.5MHz	22.92	18.12	24.97	18.01
	2500MHz	21.25	17.62	21.83	17.52

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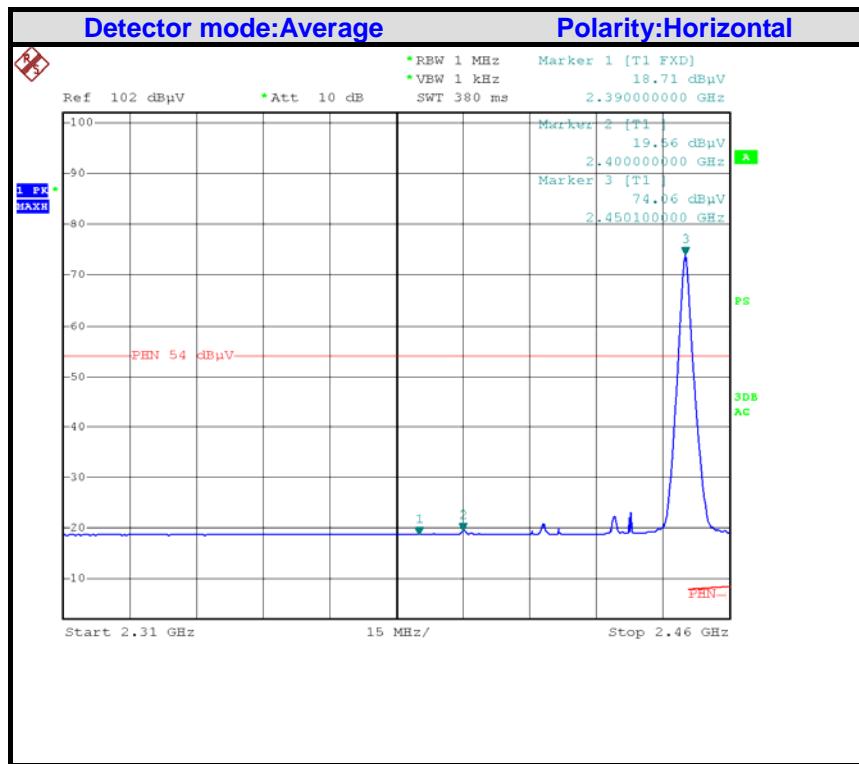
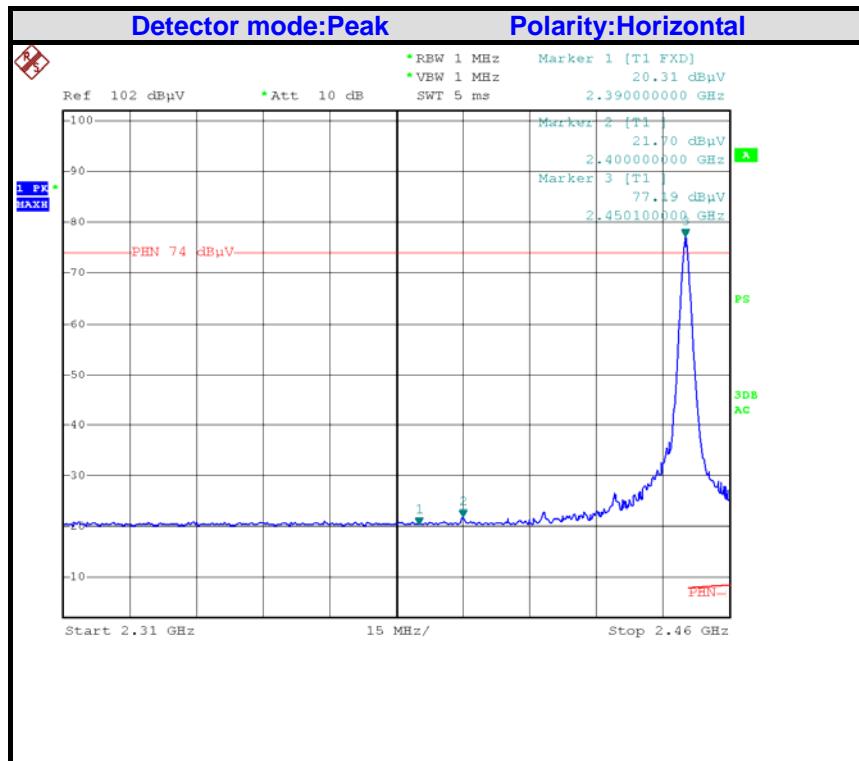
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Band Edges (Low)



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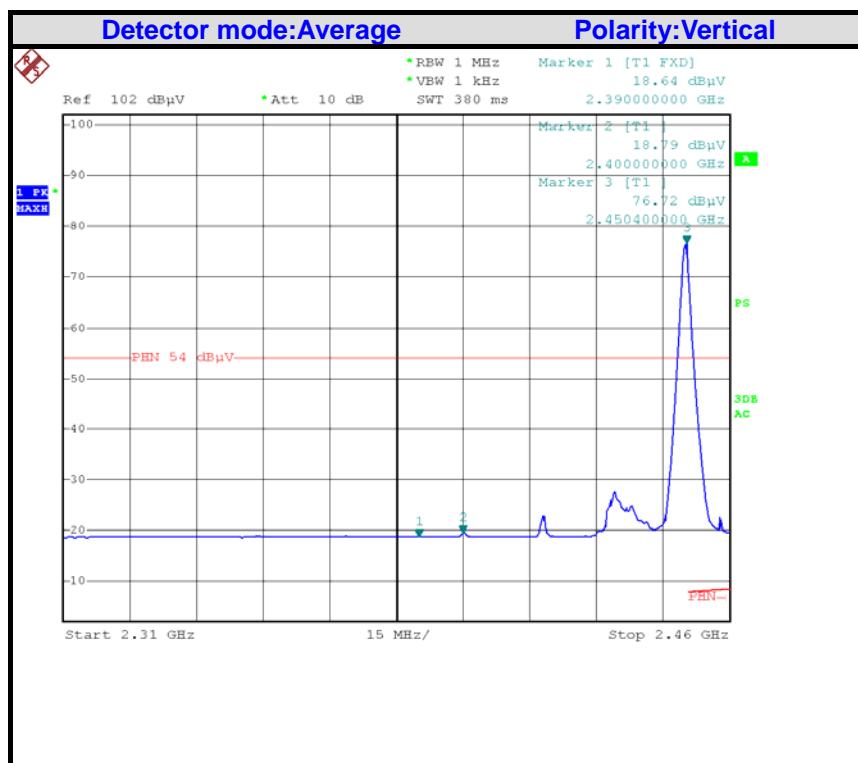
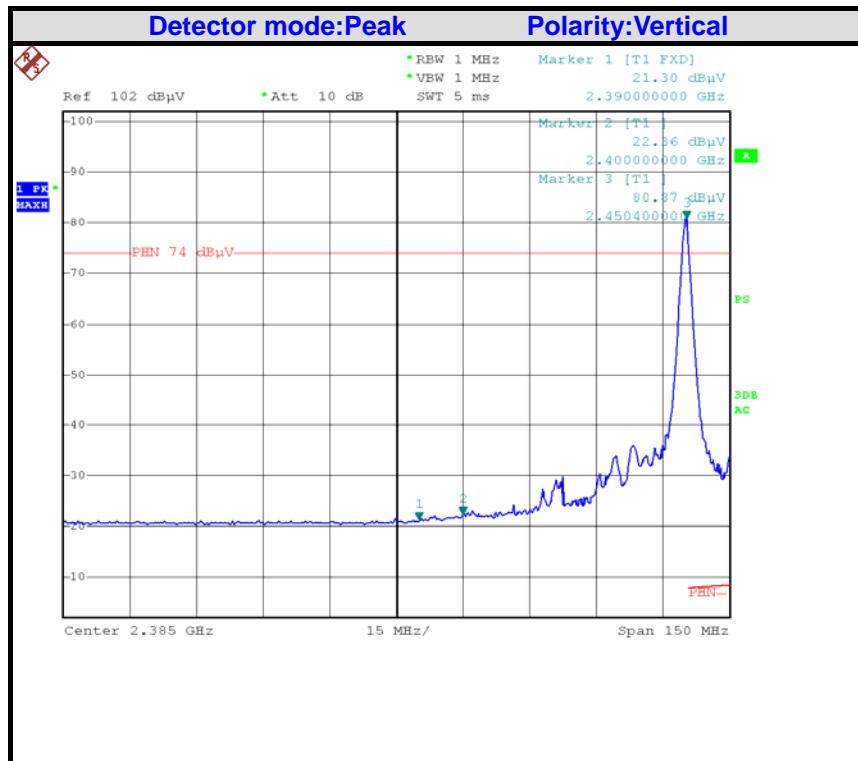
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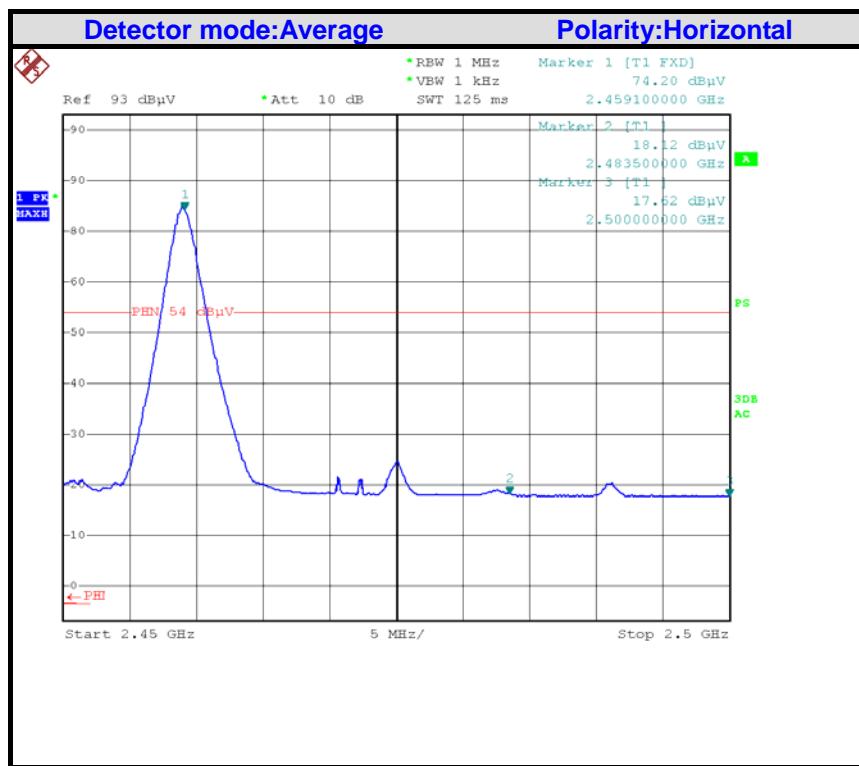
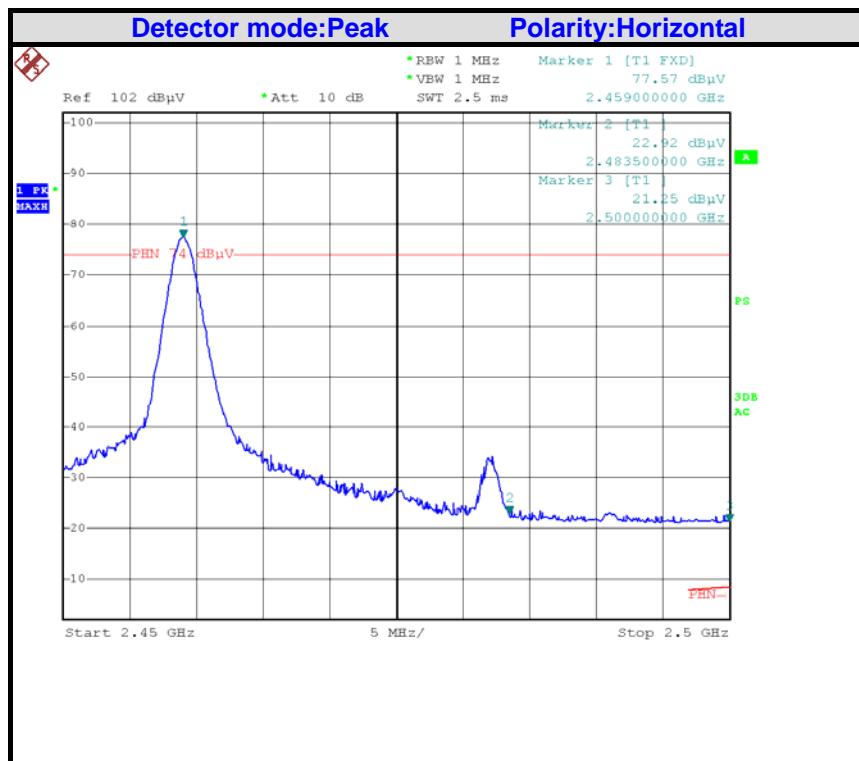
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Band Edges (High)



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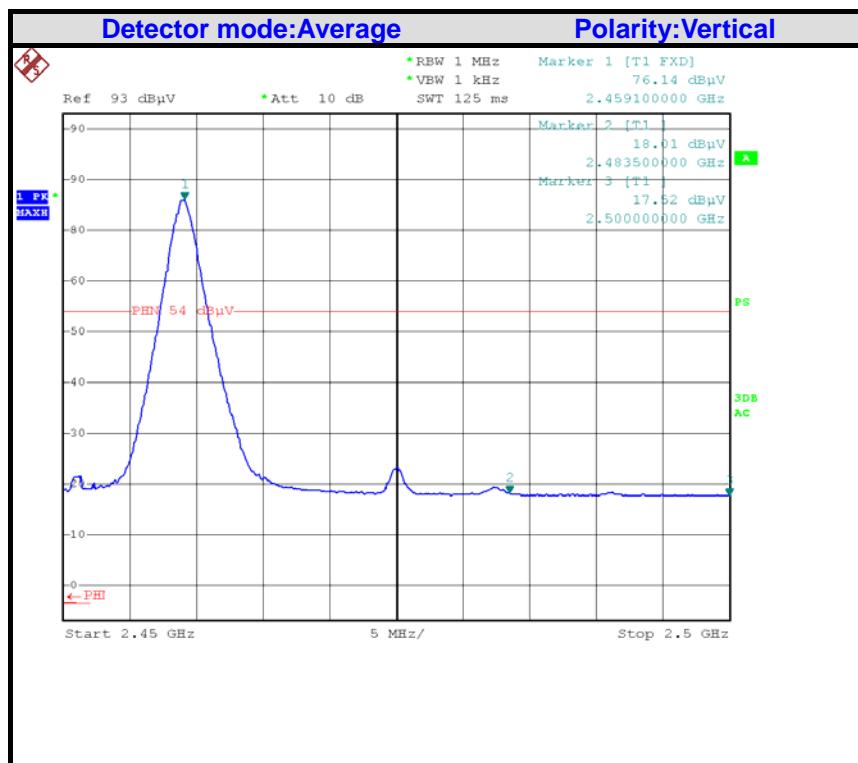
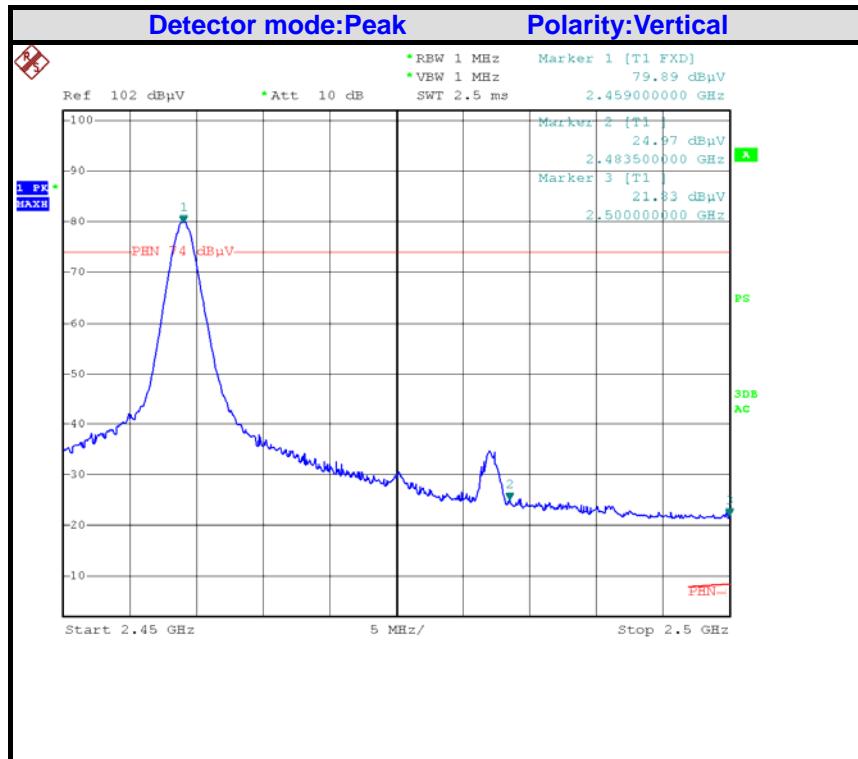
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9. 99% bandwidth

9.1 Test procedure

According to RSS-210 A1.1.3 and RSS-Gen 4.6.1 The 2.4G camera drone 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	2016/03/26
2	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03/24

9.3. Test Results

PASSED.

Channel	Frequency (MHz)	Bandwidth (MHz)
Low	2450	1.300
Middle	2455	1.064
High	2459	1.044

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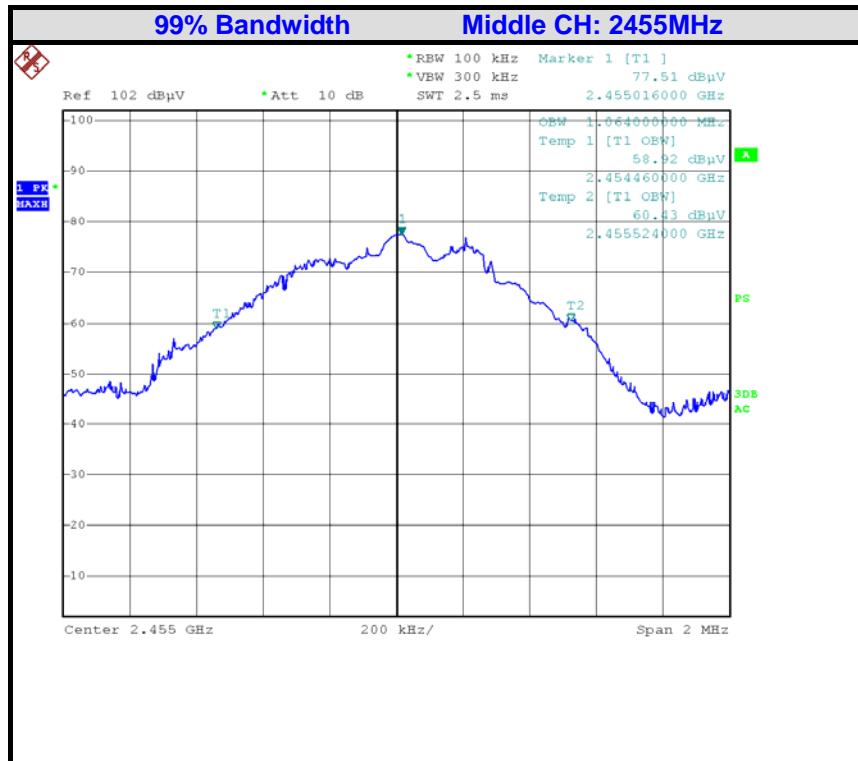
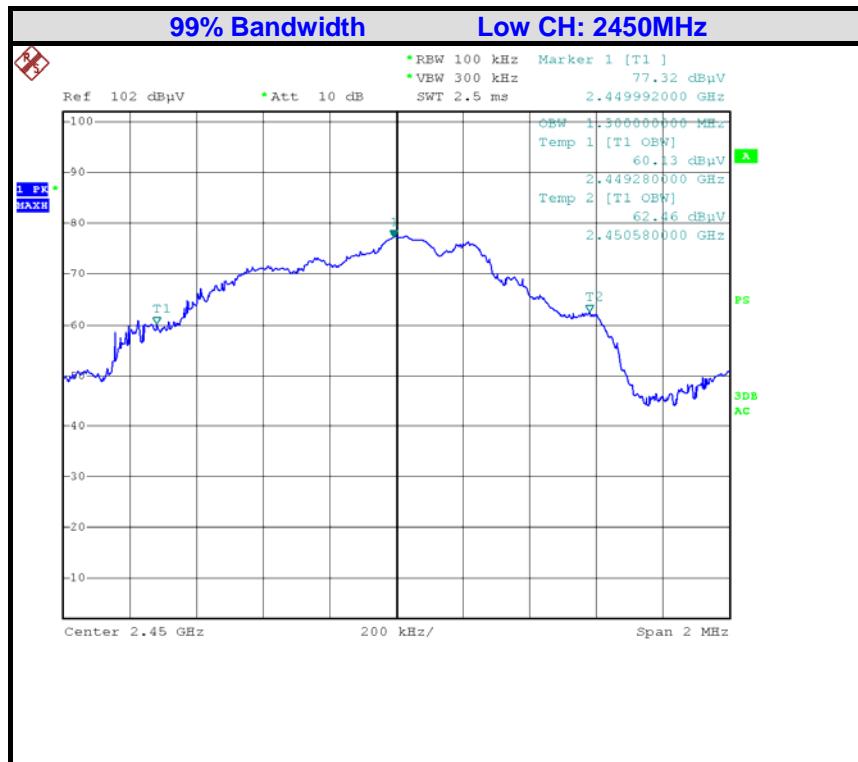
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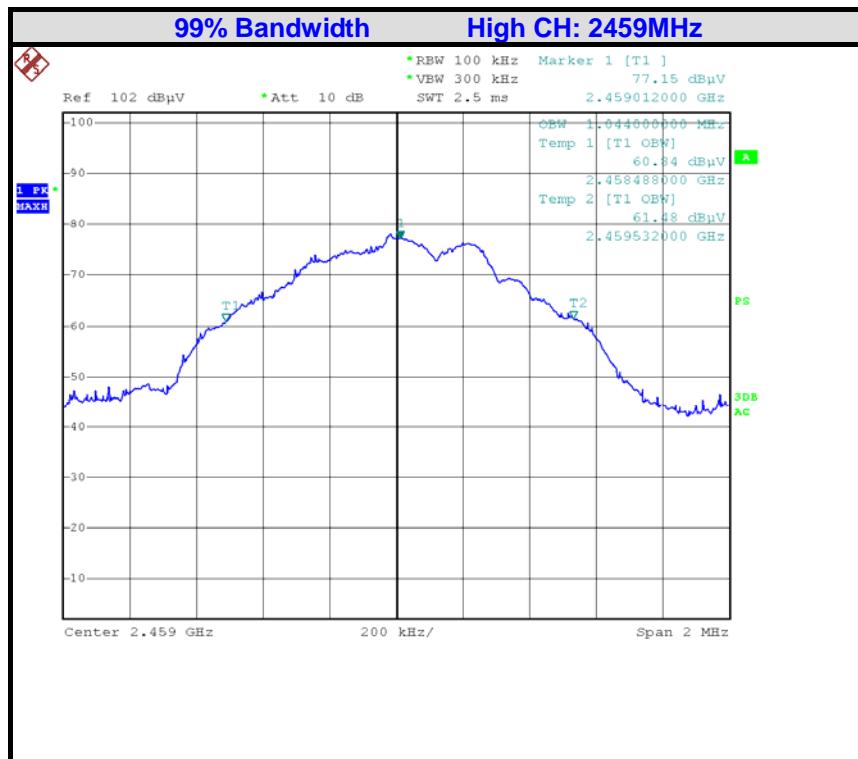
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10. Deviation to test specifications

The following identical model(s):

HBZ9200

Belong to the tested device:

Product description: **2.4G camera drone**
Model name: **101**

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